







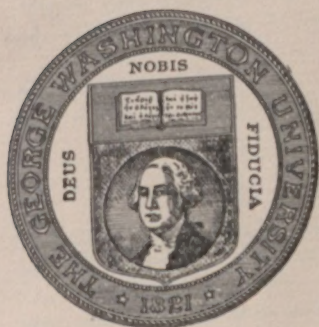
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# The George Washington University Bulletin

CONVOCATION NUMBER

MARCH, 1909



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# The George Washington University

## BULLETIN

VOL. VIII

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### THE WINTER CONVOCATION.

The Winter Convocation was held at the Belasco Theater, Monday morning, February 22, 1909, at half past ten o'clock. The Trustees, invited guests, and members of the faculty, and students, formed in academic procession at the University building, and proceeded to the theater. The entire first floor was reserved for the student body, of whom more than six hundred were present. The theater was crowded with distinguished guests and many were unable to secure entrance.

It was a notable event. Honorable Charles Evans Hughes, Governor of the State of New York, was the guest of the University and delivered the address, his subject being Progress and the Ideals of Washington. Honorary degrees were conferred upon President Roosevelt, Governor Hughes and the Right Reverend Alfred Harding, Bishop of Washington.

The Convocation program was as follows:

Rev. Richard D. Harlan, D.D., LL.D., Chaplain, read the Salutation and offered prayer.

### SALUTATION.

*To the praise of the Fathers, let us now praise famous men, and our fathers that begat us. The Lord hath wrought great glory by them through His great power from the beginning. Such as did bear rule in their kingdoms, men renowned for their power, giving counsel by their understanding, and declaring prophecies, leaders of the people by their counsels, and by their knowledge of learning meet for the people, wise and eloquent in their instructions: all these were honored in their generations, and were the glory of their times. There be of them that have left a name behind them, that their praises might be reported. And some there be which have no memorial; who are perished, as though they had never been born; and their children after them. But these were merciful men, whose righteousness hath not been forgotten.*



*With their seed shall continually remain a good inheritance, and their children are within the covenant. Their seed standeth fast, and their children for their sakes. Their seed shall remain forever, and their glory shall not be blotted out. Their bodies are buried in peace; but their name liveth evermore. The people will tell of their wisdom, and the congregation will show forth their praise.*

#### PRAYER.

O Lord of heaven and earth, Who leddest our fathers forth, making them to go from one kingdom to another people; we yield Thee hearty thanks for all that Thou didst for them and art doing for the land to which they came. May we always remember them in Thee, and be grateful to them through Thee.

We remember that their communion was to eat their bread in exile, their sacrament was to pour out their blood for others. We remember them not only as valiant in fight, but as wise in council, not only as brave warriors but as far-seeing statesmen, and incorruptible patriots; and we give Thee thanks for them this day.

We remember those of a later day, who spared not their lives that our land might be one; patriots of the newer time, prophets and martyrs of our country's unity; and we give Thee thanks for them this day. And we pray that we may follow their good examples and bequeath to our children a Nation worthy of such founders and preservers, meet to do Thy will, a kingdom subject completely to Thee and to Thy Christ.

God of all and might, the Maker and Ruler of men; we commend our Nation to the guidance of Thy wisdom and to the keeping of Thy love.

May the rulers whom Thy people choose to serve them, serve Thee in honesty of purpose and uprightness of life. May they never forget their answerableness to the people whom they serve, and to that people's God. Deliver them from the love of power and from motives of personal gain; from considerations of men or money in place of the demands of truth and justice; and from losing patriotism in partisanship. Bless them in their ministry with an ever larger vision of truth, an ever deeper sense of the demands of righteousness; that through their faithfulness the life of our people may be guided by wise policies, and lifted to higher ideals and nobler achievements; through Jesus Christ our Lord.

Almighty God, Who in the former time didst lead our fathers forth into a wealthy place: Give Thy grace, we humbly beseech Thee, to us their children, that we may always approve ourselves a people mindful of Thy favor and glad to do Thy will.



Bless our land with honorable industry, sound learning, and pure manners. Defend our liberties, preserve our unity. Save us from violence, from discord and confusion, from pride and arrogancy, and from every evil way. Fashion into one happy people the multitudes brought hither out of many kindreds and tongues. Endue with the spirit of wisdom those whom we entrust in Thy Name with the authority of governance, to the end that there be peace at home, and that we keep our place among the nations of the earth. In the time of prosperity, fill our hearts with thankfulness; and in the day of trouble, suffer not our trust in Thee to fail; all which we ask for Jesus Christ's sake.

Lord of Hosts, Who didst guide our fathers out of the house of bondage, and through the Red Sea of war, Who hast granted us an heritage of glorious sufferings and the strength of chastening trial, appointing us for the protection of the weak, and giving us a potent ministry to all the world; bind up the Nation's wounds and make us whole. Help us to close the widening chasm between the strong and weak, the rich and poor; to cast into that chasm all pride and prejudice, all luxury and lust, all envy and covetousness, the insolence of riches and the rancor of poverty, that we may fill it full and make a highway for the King to pass over, and for all the people to walk therein together.

So may we establish the Republic, and build in America the Holy City foretold by the mouth of all the holy prophets since the world began. We ask this in His name who maketh men to be of one mind in a house and giveth integrity to States, Who casteth out devils and confoundeth the tongues of foolish counsellors, the Desire of all Nations, Jesus Christ, in Whose name and words we further pray:

Our Father, who art in Heaven. Hallowed be Thy name. Thy kingdom come. Thy will be done on earth as it is in Heaven. Give us this day our daily bread. And forgive us our debts as we forgive our debtors. And lead us not into temptation, but deliver us from evil. For Thine is the kingdom, and the power, and the glory, forever. Amen.

#### INTRODUCTION.

In welcoming the guests of the University and in introducing the orator of the day, President Needham spoke as follows:

It gives me great pleasure to welcome the friends of the University to this Convocation. The Mid-Winter Convocation was introduced into the program of the academic year four years ago, with three distinct objects in view. The first was the granting of degrees at the conclusion of the first semester, our academic year being divided into two parts. This enables students who enter the University on the first



of February to receive their degrees upon the completion of their courses. It has proven to be of decided advantage to the University, as many students are now entering in the middle of the year, knowing that they can complete their courses and take their degrees at the end of a three or four years' course without long delay after they have passed their examinations.

Second, the date of the Mid-winter Convocation was fixed after we adopted the present name of the University, to celebrate the birthday of that great first President whose name the University bears. In itself, this would be a sufficient reason for holding the Convocation on the twenty-second of February. It is a national holiday, growing to be universally observed throughout the United States in honor of the man who won for himself the fame of being the father of his country, whose wisdom, and fidelity, and unselfishness in its service has won the respect and the admiration of the civilized world.

The third object was to use the occasion and this patriotic day for an important part in the educational work of the University; to put before the youth of our land those high ideals of civic duty and virtue essential to the high purposes and life of our beloved Country. No happier subject for the address upon this occasion could therefore have been selected than the one chosen by the distinguished citizen and Governor who is to address you.

"Progress and the Ideals of Washington" gives to him the opportunity to place before our minds true ideals of personal and civic virtue while reviewing the advancement which the country has made, or is making toward the attainment of these ideals. No one, I am sure, is more possessed with these noble conceptions of duty, nor has any one struggled more earnestly or persistently to make them prevalent than the honored Governor of New York.

I have the very great honor to introduce to you Honorable Charles Evans Hughes, the chosen speaker for this occasion.

Governor Hughes received a splendid ovation, both at the beginning and at the conclusion of his address. He spoke as follows:

#### PROGRESS AND THE IDEALS OF WASHINGTON.

The cause of liberty is safe with those who sincerely revere the characters of Washington and Lincoln. The significance of the notable tributes of a grateful people is that they are not paid merely to talent or to triumph. These alone could not command them. They have been won because distinguished talent was consecrated to the noblest purposes and because the triumph was secured and made a blessing to mankind by the virtues of patience, perseverance, unselfishness and devotion to duty.



While free institutions may be founded and supported by the heroic service of exceptional men, the strength of these institutions and their capacity for endurance must be found in the intelligence and conscience of the people as a whole and in the readiness of the people to respond to noble ideals in public and private life. In his humbler sphere, with less talent and smaller opportunity, battling in the lesser struggle of his restricted environment, every citizen may be heartened by the example of the great leader in our early history who with extraordinary powers met extraordinary emergencies with unsurpassed ability and fidelity. To derive this inspiration should be the chief object of the commemoration of this day.

In the noblest struggle ever waged for human rights, Washington exhibited the finest qualities of manhood. He neither coveted power nor misused it. He was uncorrupted by ambition and unaffected by appeals to vanity. The supreme sense of duty and of the obligations of honor controlled his imperious nature. The first soldier of the colonies, he entered the struggle not to obtain military glory, but to execute a sacred trust committed to his care. His stout heart never yielded to despair. He was unterrified by perils and undismayed by defeat. With unrivaled patience and resourcefulness he kept his little army in the field, inspiring it with his own devotion. The machinations of cabals proved powerless against his poise and firmness, and with confidence in the verdict of history he prosecuted his campaigns until he obtained the final victory which was preeminently due to his sagacity and valor.

Throughout the long struggle, from its beginning when he refused compensation for his services, until the time when, crowned with success, he eagerly sought retirement, there was not a suggestion of selfish motive. The idea that he should turn his military power or public opportunity to private advantage never cast a shadow over his noble soul.

His fame as a victorious soldier gave place to that of the constructive statesman when under novel conditions were laid the foundations of the constitutional government of a free people. The work of that formative period, to which so many able minds contributed, had the inestimable advantage of being associated with the character and pure aims of Washington. As the first President of the new Republic he represented to his fellow citizens their highest aspirations and loftiest patriotism. His administration was characterized by the same sense of duty that had dominated his military labors, and he will forever be enshrined in the memory of the American people as the type of dignity, unselfishness, and complete fidelity in public office.

To artful contrivance, to avaricious grasping, to every effort to secure special privileges at the expense of the public welfare, to every perversion of administrative powers, to the petty and sordid aims of



ingenious schemers, and to all who conceive our liberties and our constitutional rights as affording opportunities for the exploitation of the people, stands in vivid contrast the character of Washington, a scathing rebuke and an inspiring example.

Washington was solicitous for the welfare of his country. We may test our progress by the touchstone of his hopes. The small and scattered population of the colonies fringing the Atlantic has grown to the millions which now spread throughout our broad domain to the Pacific. The discoveries of science, skill in invention and aptitude for commerce and industry have developed a material prosperity which is the envy of the world. Our institutions have been subjected to the severe strain of an unparalleled extension of governmental activities on the part of a free people. Democracy has assumed the burdens of empire. How closely in this extraordinary development have we remained true to the ideas of Washington?

Washington ardently desired the growth of National sentiment. He had suffered from the lack of centralization of power during the struggle for independence; he was keenly aware of the jealousies and mutual distrust which had characterized the period that succeeded the war, he knew the different points of view which it had been sought to reconcile in the Constitution. And it was with profound earnestness that he advised his countrymen to 'properly estimate the immense value of their National union to their collective and individual happiness'; to 'cherish a cordial, habitual and immovable attachment to it'; to 'think and speak of it as of the palladium of their political safety and prosperity'; and to watch 'for its preservation with jealous anxiety.'

Washington feared the growth of sectionalism and in the historic sentence he urged 'that the name of American, which belongs to you in your National capacity, must always exalt the just pride of patriotism more than any appellation derived from local discriminations.'

We no longer need to fear a decadence of National sentiment. We seem to have passed the period when sectional rivalries can be sufficiently intense, or sectional differences of policy sufficiently acute, to endanger the existence of the Union. We have paid a terrible price for the preservation of the unity which Washington desired. But it is now secure. The national sentiment has become predominant, not destroying but transcending mere local attachments. The patriotic feeling of a united people rejoicing in their common country animates us in north, south, east, and west, and a free intercourse has developed a mutual sympathy and a capacity for understanding each other's positions and difficulties even in matters in which there is not complete accord. No State or section can claim to outrival any other State or section in love of the flag or in devotion to the Nation. Material interests have aided the growth of this national consciousness. We are



so dependent upon each other, we are so closely related by our commercial exchanges, and invention has so largely overcome the disadvantages of distance that whatever may betide us, separation has become unthinkable and, for better or worse, we are indissolubly bound together.

Washington asked: 'Is there a doubt whether a common government can embrace so large a sphere?' and answered, 'Let experience solve it. To listen to mere speculation in such a case were criminal. We are authorized to hope that a proper organization of the whole, with the auxiliary agency of governments for the respective subdivisions, will afford a happy issue to the experiment.'

The efficiency of the governments of the States and the maintenance of local autonomy with respect to questions of exclusively local concern are essential to the prosperity of the Nation. We may trust the practical wisdom of the American people to preserve these and at the same time to secure from the National government the full exercise of powers committed to it which are essential for the proper supervision of National concerns.

The closer relations and more intimate intercourse of our people tend to bring about greater harmony in State legislation and administration. Similar needs will suggest the importance of similar remedies and interchange of opinions will have important influence in shaping common policies. The diminution of sectional jealousies and the transfer of the rivalries of the States to the field of efficient government will greatly promote a suitable co-operation. The recent Conference of Governors called by President Roosevelt to emphasize the importance of conserving our national resources will stimulate this tendency, and without change in our Constitutional system States will more generally take counsel of each other, and will aim to perfect their administration along similar lines. On the other hand the powerful influences, sentimental and unsentimental, which promote National unity, make easier the work of the National administration, while its activities expand. So that despite our growth, we may still hope with Washington that the experiment of a common government over so large a sphere will have a 'happy issue,' and our experience since his day may justly make us more confident of the future.

Washington warned his countrymen against 'the insidious wiles of foreign influence' and against entangling 'our peace and prosperity in the toils of European ambition, rivalry, interest, humor or caprice.' He advised an honest diplomacy and the faithful performance of international obligations. He desired that there should be cultivated 'an American character,' so that the powers of Europe should be convinced that 'we act for ourselves and not for others' and that in this way through abstaining from partisanship we should be 'respected abroad



and happy at home.' The perplexing situations which gave point to his counsels are familiar to all students of our history. How intense would have been his gratification could he have foreseen to how large a degree his advice would be followed and his hopes realized! We have developed the 'American character' which he desired, and we enjoy our own place, a place of unsurpassed power and influence—but none the less an independent place—among the nations of the earth. Washington could not foresee how small the world was to become through facility of communication, or the new problems which were to arise. It is within a few years that we assumed unexpected responsibilities as the result of the war with Spain.

But our progress has left unsullied the honor of our diplomacy and the best traditions of the Republic, shaped by our ablest men, and our country's influence for its own and the world's peace have been maintained with conspicuous ability and highmindedness in these last days through the services of Hay and Root. Perplexing as may be the problems incident to our possessions, the American people recognize the fact that they have assumed a sacred trust which is to be discharged with fidelity to the standards of liberty and without violence to the aspirations of those who have been committed to our care. Adherence to the principles of Washington brought us to an unrivaled position, and the character of our aims and our devotion to the interests of peace should secure to us the retention of its advantages. There is no more important assurance of international amity than that which is found in the attitude and policy of the United States.

Washington inculcated respect for the Constitution and the laws. He said, referring to the government: 'Respect for its authority, compliance with its laws, acquiescence in its measures, are duties enjoined by the fundamental maxims of true Liberty. The basis of our political systems is the right of the people to make and to alter their Constitutions of government. But the Constitution which at any time exists, till changed by an explicit and authentic act of the whole people, is sacredly obligatory upon all. The very idea of the power and the right of the people to establish government presupposes the duty of every individual to obey the established government.' It is inevitable that in a large population enjoying freedom of speech there should from time to time be mutterings of discontent and hasty expressions of antagonism to present laws or even to some of the institutions of government. But it would be a great mistake to assume that these sporadic ebullitions of sentiment to any serious degree express the disposition of the American people. The people as a whole are lovers of law and order. And a candid comparison of conditions in earlier days with those of our own time must assure us that our rapid development has not weakened the attachment of our people to our fundamental institu-



tions. They are frequently impatient in the presence of known abuses. But the appeal to the sober second thought of the American people and to their desire to have needed reforms accomplished in an orderly manner is never made in vain. There is little revolutionary sentiment among us. Candor and fidelity on the part of public officers in seeking to secure an impartial execution of the laws and an intelligent effort to provide reasonable remedies for the correction of evils will suffice to maintain respect for the government and it can be seriously threatened only by maladministration.

'The due administration of justice,' said Washington, 'is the firmest pillar of good government.' There is no surer sign of a tendency threatening to undermine free institutions than hostility to the orderly processes of the courts. The loyal acceptance of the decisions of those who have been chosen as the arbiters of our judicial controversies is essential to stable government. Dissatisfaction with the law as interpreted by those duly appointed for the purpose should be expressed in a suitable effort to amend the law.

Respect for the courts, however, in a free community such as ours must find its support not in a sentiment of fear or in awe of rulers, but in an intelligent appreciation of the necessity of the peaceful and orderly arbitrament of differences and in the maintenance of judicial authority as an essential safeguard of public and private rights. This appreciation the American people generally have and there could be no more striking proof of it than their attitude toward judicial decisions. No branch of administration to so large a degree enjoys immunity from criticism.

But we should avail ourselves of this advantage and buttress the respect for our judicial tribunals by improving so far as possible the administration of justice. Particularly is this needed in those lower spheres of judicial work through which the government and the law are interpreted to the great mass of our people. Ignorance and favoritism in the police court, and protracted delays in courts of petit civil jurisdiction, have an injurious effect upon the sentiment of the people toward the government which is not to be judged by the relative inconsequence of the questions in dispute. The administration of justice in the lower criminal and civil courts of our large cities is a matter of great importance to the well-being of these communities and should be a subject of grave solicitude to those entrusted with authority in the several States. In all our courts the effort should be made to avoid by improved procedure the unnecessary protraction of litigation.

Another subject which demands the most careful attention of the students of our jurisprudence is that relating to compensation for personal injuries. We are permitting a vast waste and systematizing injustice through the forms of law. Our courts are clogged with suits



based upon claims of negligence. It has been estimated that these cases require for their disposition not less than one-half of the judicial machinery which, at great cost, has been provided in the city of New York for the trial of civil suits, and in other parts of the country the situation is not dissimilar. A very large number of negligence cases are prosecuted upon a basis which give the attorneys a high percentage of the recoveries. Only a small portion of the premiums paid for insurance against liability is devoted to the actual compensation of those injured. The enormous sums paid by the public in the maintenance of courts and by defendants in satisfaction of claims are out of all proportion to the slender benefits derived by those for whom the system is established. This is apart from the consideration of the frauds and perjuries, the solicitations and malpractice which unhappily the system fosters. So far as our constitutional provisions permit, there should be a recasting of the laws of our States with regard to recoveries for injuries, and present methods should give place to a reasonable plan of compensation having just relation to modern conditions.

I am also profoundly convinced that in the interest of proper respect for the courts in the performance of their judicial functions they should not be burdened by questions of legislative or merely administrative character. In some jurisdictions the tendency is to refer to the courts for final disposition questions that are appropriately within the province either of the legislature or of administrative officers to which the legislature may commit the execution of the laws. Where a judicial question arises, as for example by reason of the invasion of constitutional right, a subject is presented for the jurisdiction of the courts. But in the absence of judicial questions I believe it is a mistake to bring the courts into relation to the disposition of mere matters of administration and to subject them to the public criticism which inevitably attaches to the performance of administrative functions.

Washington considered 'the first arrangement of the judicial department as essential to the happiness of the country and to the stability of its political system.' And 'the selection of the fittest characters to expound the laws' was 'an invariable object of his anxious concern.' This solicitude so generally shared by his successors, has maintained the Supreme Court in a position of strength and dignity compatible with its exalted powers. It must still be regarded, as Washington described it in nominating John Jay as the first Chief Justice, as the 'keystone of our political fabric.' And it is agreeable to reflect that despite the difficulty and vast importance of the questions which it has determined, it has held, and still enjoys, the unimpaired confidence of the American people.

Washington warned against the dangers of faction and against associations for the purpose of directing or controlling the constituted



authorities. He had in mind the abuses incident to political combinations.

Our history has revealed the force and necessity of political parties and it has also shown the evils against which we must constantly guard. But it is interesting to notice how the people, without destruction of the necessary vehicles of political action, are intent upon securing within the party the proper expression of their will and such modification of party methods as will conform them to the spirit of our institutions. Measures of civil service reform have greatly decreased the evils due to the use of the departments of government as partisan encampments. During the past twenty-five years there has been no more notable movement in the country than that for the purification of political methods, for the freeing of our election system from corrupt practices, and for the removal of abuses which had seemed inseparable from political campaigns. While those who take a short view may be inclined to be pessimistic, the student of our entire history cannot fail to be impressed with the growing determination to prevent the perversion of political machinery and to rescue government from the domination of selfish interests. At a time when material prosperity reached its highest point and combinations of wealth and power seemed to exercise an irresistible influence, the American people once more revealed their capacity for self-government and resolved to drive the money-changers from the temples of democracy. The people are not decadent or indifferent to their rights. They are not unworthy of the priceless heritage of the memory of Washington.

Throughout the Union, in a large number of States, peaceful revolutions are under way to vindicate the supremacy of the law and to maintain the integrity of our institutions against the assaults of avarice and the encroachments of selfish combinations.

Washington was profoundly interested in the cause of education. 'Promote then,' said he, 'as an object of primary importance institutions for the general diffusion of knowledge. In proportion as the structure of a government gives force to public opinion it is essential that public opinion should be enlightened.' He was specially desirous to have established a national university in the capital city. This was a project dear to his heart, for he desired students from all parts of the country to have the advantages of general education under the jurisdiction of the Federal government at its permanent seat where, as he said, its 'laws and policy' could 'be better understood' than in any other locality. He was patriotically anxious to promote the sentiment of unity by providing suitable opportunities for the young men of the country to become acquainted with the working of its institutions. The advantages which he pointed out still exist and have been reinforced by the opportunities afforded by the important educational material which



has here been accumulated. It may be hoped that this plan of Washington may yet be consummated and that in its development the work of this University which bears his name may have an honored part.

Washington was not misled by confidence in a mere form of government. He realized that it was vain to expect political prosperity without religion and morality, which he regarded as its 'indispensable supporters.' Said he: 'Whatever may be conceded to the influence of refined education on minds of peculiar structure, reason and experience both forbid us to expect, that National morality can prevail in exclusion of religious principle.' The material advantages of our modern life have not stifled the conscience of the people and the religious principle, which is not to be confused with particular dogma, continues to exert its beneficent influence, under conditions of perfect toleration and mutual respect.

We cannot be blind to the evils that afflict society, nor can we ignore the degrading and corrupting influences which unfortunately exist. But with each decade counteracting agencies multiply.

Let us address ourselves with renewed zeal to the task of our generation. Let us stoutly resist every debasing tendency of our times, not with sullen discontent feeling that we have fallen upon evil days, but with just consideration of the moral responsiveness of the people. Let us resolve to meet the calls of duty and the demands of honor, grateful for the blessings we enjoy and inspired by implicit trust in the Providence of God.

#### PRESENTATION OF AN AMERICAN FLAG.

President Needham, in accepting an American flag presented to the University by Mr. Frederick Denison Owen, said:

Four years ago Mr. Frederick D. Owen, of this city, designed and presented to this institution a University flag. Its design and workmanship have commanded the admiration of many and the University accepted it with great satisfaction. To-day Mr. Owen presents to us a beautiful silk American flag to keep company with the University flag.

This flag of our Nation was largely if not entirely designed by Washington; the first one was made in 1776 from a pencil drawing made by him. On June 14, 1777, the Congress in Philadelphia adopted it as the flag of the thirteen United States.

It has been said that by reason of the colors and their arrangement, this flag can be seen and identified a greater distance at sea than any other. Whether this be true or not, we are reminded to-day by the return of our splendid fleet, with its gallant officers and men, that the flag has been seen, and we rejoice that it has been specially honored by the nations of the world. It seems appropriate that the University



which bears the name of Washington should possess this honored and beloved emblem.

Mr. Owen in his scheme of decoration for this occasion has tastefully draped these two flags around the bust of Washington upon the platform.

It is with very great pleasure on behalf of the University that I accept from Mr. Owen this beautiful flag, which I am sure you all wish to honor.

There was appreciation of the gift by the audience and all stood while the Marine Band played the Star Spangled Banner.

#### CONFERRING OF DEGREES.

Degrees in course were conferred by the President of the University upon the following candidates presented by the Deans:

Dean Wilbur, of Columbian College, presented,

*For Bachelor of Arts:*

ULYSSES GRANT BAKER PIERCE, District of Columbia.

JAMES OWENS WRIGHTSON, District of Columbia.

*For Bachelor of Science:*

TITUS ULKE, District of Columbia.

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Dean Hodgkins, of the Washington College of Engineering, presented,

*For Bachelor of Science in Electrical Engineering:*

HARLAN VERNE HONN, District of Columbia.

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Dean Vance, of the Department of Law, presented,

*For Bachelor of Laws:*

JOHN EDWARD BISCOE, District of Columbia.

BRUCE RANDALL KESTER, Pennsylvania.

HARRY EARL LEACH, California.

*For Master of Laws:*

RALPH MARSHALL HATTERSLEY, Ohio.

*For Master of Patent Law:*

CARL A. RICHMOND, Illinois.

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Music—Violoncello Solo, Andante.....*Romberg*  
Mr. Fritz Mueller.



Dean Munroe, of the Faculty of Graduate Studies, presented,

*For Master of Arts:*

EDWARD DAMON BALDWIN, Oregon.

*For Master of Science:*

FRANCES SANDERS, District of Columbia.

*For Electrical Engineer:*

FRANK BAILEY STEELE, West Virginia.

*For Doctor of Philosophy:*

WILLIAM CLIFTON PHALEN, Massachusetts.

#### HONORARY DEGREES.

In conferring the degree of Doctor of Laws upon President Roosevelt, Dr. Needham read a copy of the letter delivered to the President, as follows:

February 18, 1909.

*Dear Mr. President:*

It gives me great pleasure to inform you that the Faculties and Board of Trustees of The George Washington University have authorized me to confer upon you the honorary degree of Doctor of Laws at the Convocation to be held on next Monday, the twenty-second of February, and because a great national event calls you to Norfolk on that day they authorize the degree to be conferred in absentia.

Your distinguished public services entitle you to the highest honor the University can bestow. During your administration as President, civic and business life have received a strong impulse to higher ethical standards; methods which were once common and lawful are now condemned by public opinion and by statutes as being contrary to public policy. The laws regulating quasi-public corporations have been enforced and are being obeyed. Rules for better industrial conditions have been promulgated which capital and labor are hastening to obey, and the youth of our land have been taught by your example the obligation so well expressed by Edmund Burke when he said, 'It is not only our duty to make truth known, it is our duty to make it prevalent.'

It is these personal qualities together with your high attainments in the fields of government and literature that have moved the Faculties and Trustees of the University to bestow upon you this degree. It is in recognition of your achievements, not because you are President of the United States, that we seek to honor you with this degree. It is especially fitting, upon this birthday of the great first President of the United States, that we recognize the virtues which put you in the true line of succession to Washington.



By virtue, therefore, of the authority conferred upon me I admit you to the degree of Doctor of Laws, with all the rights, privileges and honors pertaining to this distinction.

With very great respect, I am,

Sincerely yours,

CHARLES WILLIS NEEDHAM.

President Theodore Roosevelt.

President Roosevelt replied:

THE WHITE HOUSE, WASHINGTON,  
February 18, 1909.

*My dear Mr. Needham:*

Thru you I desire to thank the Faculties and Board of Trustees of The George Washington University for the honor conferred upon me in making me a Doctor of Laws and for conferring the degree upon me in absentia, as a great national event calls me to Norfolk on the 22d of February. Indeed, my dear sir, I thank the University most heartily, not only for the degree, but for the language used by you, the President, in writing me in reference thereto. Be assured that I am deeply appreciative of what you say, and so far as in me lies I will endeavor so to act as not to forfeit the confidence you express.

With high regard and renewed thanks, believe me,

Sincerely yours,

THEODORE ROOSEVELT.

President Charles W. Needham,  
The George Washington University,  
Washington, D. C.

Conferring the degree of Doctor of Laws upon Governor Hughes, President Needham said:

A man is first what his principles and knowledge and characteristics make him; opportunities, seized and improved, reveal him to the world. As an American lawyer with a broad culture and well grounded in the science of the law, you were known in the profession. But in the great moral awakening which swept over this country in 1904-5 the opportunity came for you to reveal your sound knowledge and personal integrity to the people of your State. In the investigations which were conducted under your wise counsel there were displayed acuteness of mind, persistency in effort, a remarkable mastery of the subjects, and above all a steadfastness of purpose. It resulted naturally in your being called to that exalted position which you now occupy, to the exercise of a wide influence and the enjoyment of a high degree of honor which is so cordially accorded to you by the people of your State and of the



Nation. Your high intellectual attainment, your loyalty to the best traditions, your insistence that all public service shall be "honestly and well done by men who are equal to the task," have won for you many honors, and it is in recognition of these virtues and noble qualities that the Faculties and Trustees of this University have directed me to confer upon you the degree of Doctor of Laws. It is with profound pleasure that I admit you to this degree with all the rights, privileges and honors pertaining to this distinction.

To Bishop Alfred Harding in conferring the degree of Doctor of Laws President Needham said:

For many years you have lived and wrought among the people of this city of Washington. Your knowledge, wisdom and splendid spirit have been made manifest in many ways and upon many occasions. You are the recipient of the affection and the honor of our people and those who know you best honor you most. You have recently been elected to the high office of Bishop of Washington. This office calls for high administrative abilities. That you are fitted to perform these duties we have no doubt. You will also have to do largely with the home, as well as the religious life of the people. The family has been and always will be the foundation of the best civilized government. We do not forget that your church has always stood firm for the enforcement of all laws which involve the morality and the integrity of domestic relations and through these the honor and the perpetuity of the Nation. It is fitting, therefore, in view of your services in the church and of your intellectual attainments and wisdom that you be honored this day by the University.

It is with great personal pleasure that I perform the duty imposed upon me by the Faculties and Trustees, and admit you to the degree of Doctor of Laws, with all the rights, privileges and honors pertaining to this distinction.

After the conferring of the honorary degrees the audience, led by Mr. Otis D. Swett, joined in singing America. The exercises were concluded with the benediction pronounced by the Rev. Samuel H. Greene, D.D., LL.D.

#### RECEPTION.

At one o'clock the University tendered to Governor Hughes a reception at the Arlington Hotel, which was attended by the Trustees, officers, members of the faculties and a large number of distinguished people. Luncheon was served.

**PRESIDENT NEEDHAM'S REPORT TO THE BOARD OF TRUSTEES.**

At a meeting of the Board of Trustees held March 8, 1909, President Needham made a report in which he pointed out the large increase in the registration over previous years; discussed the pending bill before the Congress of the United States; reported certain modifications in the organization of the University agreed upon by the University Council; and outlined plans for meeting the financial needs of the University during the coming year. The President showed the necessity of deciding *now* upon a site by reason of the growth of the University in all its departments and securing an endowment.

Upon the conclusion of the reading of the report the Board considered the various recommendations and took the following action:

1. The Board approved of the work done by the committee in bringing to the attention of Congress the claims of the University under the Morrill Act.

2. The Board approved the recommendation of the University Council concerning the general organization of the work in Arts and Sciences and ordered:

- (a) That the carrying on of the undergraduate work through the agencies of the independent corporate organizations known as Columbian College and the Washington College of Engineering be and is hereby temporarily suspended; provided that nothing herein shall otherwise change or impair in any way the existing agreement between the University and Columbian College.

- (b) That the educational work of the Department of Arts and Sciences shall be carried on by two faculties whose members shall be appointed by the University, to be known as the Faculty of Graduate Studies and the Faculty of Undergraduate Studies; the Faculty of Graduate Studies to conduct seminar, laboratory and lecture courses leading to the higher degrees, and the Faculty of Undergraduate Studies to have the conduct and care of undergraduate work leading to the baccalaureate degrees.

- (c) That the Undergraduate Faculty in the Department of Arts and Sciences consists of the following constituent parts:

The College of Arts and Sciences,

The College of Engineering and Mechanic Arts,

The Teachers' College,

The Division of Architecture,

The Undergraduate Work in the College of the Political Sciences,



and that there be a Dean or Professor in Charge as may be hereafter determined in each college or division.

(d) That the educational work in the College of Arts and Sciences and the College of Engineering, and the Division of Architecture shall be what is commonly known as a four-years' course under such regulations as the Undergraduate Faculty shall determine.

(e) That the Teachers' College shall require for entrance two years of general college work and shall carry on two years of work, including the subjects of Pedagogy and Psychology and such other subjects as are usually taught in teachers' colleges for the junior and senior years, leading to the Bachelor of Arts degree and a Teacher's Diploma.

The Board approved the President's recommendation for providing funds for carrying on the work of the coming year. It was also agreed that the Committee on Site consisting of Commissioner H. B. F. Macfarland, Messrs. Hennen Jennings, S. W. Woodward, Henry C. Perkins, Hon. Thomas H. Anderson and President Needham should visit the various sites that were mentioned and ascertain prices and availability and report their conclusions to a special meeting of the Board of Trustees. The Committee on Endowment was authorized to prepare plans for and undertake the work of raising an endowment fund of \$2,000,000. The Committee on Endowment is as follows: President Needham, Commissioner Henry B. F. Macfarland, Hon. Thomas H. Anderson, Dr. Charles D. Walcott, Messrs. Hennen Jennings, John Joy Edson, and the administrative officers of the University.

#### ORGANIZATION.

In accordance with the above ordinance of the Board of Trustees the educational work of the University is organized as follows:

- The Faculty of Graduate Studies.
- The College of Arts and Sciences.
- The College of Engineering and Mechanic Arts.
- The Teachers' College.
- The College of the Political Sciences.
- The Division of Architecture.
- The Department of Law.
- The Department of Medicine.
- The Department of Dentistry.
- The College of Pharmacy.
- The College of Veterinary Medicine.

## REGISTRATION.

The total registration of students in the University up to March 6, 1909, is as follows:

Graduate Studies .....	114
Columbian College .....	296
Washington College of Engineering.....	191
Division of Architecture.....	56
Division of Education.....	140
College of the Political Sciences.....	88
Department of Law.....	340
Department of Medicine.....	160
Department of Dentistry.....	28
National College of Pharmacy.....	73
College of Veterinary Medicine.....	37
<hr/>	
Total .....	1,523
Last year's total registration was.....	1,258
Increase over last year.....	265

In the Department of Arts and Sciences, where the increase in the number of students has been very noticeable, there are enrolled 242 more students than last year.

## THE UNIVERSITY AND THE MORRILL ACTS.

There is a large and growing demand in the District of Columbia for technical education by ambitious young men who do not care to enter the government service as clerks, but who earnestly wish to fit themselves for professional and technical service throughout the country. To meet this growing demand the University organized in 1905 a College of Engineering, with courses in Civil, Electrical and Mechanical Engineering, and also a Division of Architecture, with four-year courses leading to appropriate degrees. About thirty thousand dollars of machinery and equipment have been given to, or purchased by, the University for this work. From about one hundred the student body has grown to over two hundred and fifty. The University also established last year a College of Veterinary Medicine, which opened with thirty-seven students. In the Arts Department courses in Botany, Zoölogy and Chemistry are given, which are the basic studies in Agricultural Science. In view of this line of work, chiefly in the Mechanic Arts, the University now lays its claim to a share in the annual federal appropriation authorized by what are known as the Morrill Acts and the amendments thereto.

According to the first Morrill Act of 1862 there was apportioned



among the several States an amount of public land equal to 30,000 acres for each Senator and Representative in Congress. The money derived from the sale of this land was to constitute a fund, the interest of which was appropriated "to the endowment, support, and maintenance of at least one college where the leading object shall be, without excluding other scientific and classical studies, . . . to teach such branches of learning as are related to agriculture and the mechanic arts, in such manner as the legislatures of the States may respectively prescribe in order to promote the liberal and practical education of the industrial classes in the several pursuits and professions in life."

By the second Morrill Act approved August 30, 1890, \$25,000 annually was paid to each State and Territory for the more complete endowment and maintenance of such colleges "to be applied only to instruction in agriculture and mechanic arts, the English language, and the various branches of mathematical, physical, natural, and economic science, with special reference to their applications in the industries of life, and to the facilities for such instruction."

By the so-called Nelson Amendment, approved March 9, 1907, the annual appropriation authorized by the second Morrill Act was increased annually until the amount should reach \$50,000. The Nelson Amendment further provides that this total appropriation of money shall be made "out of any money in the Treasury not otherwise appropriated," and that it was "to be paid to each State and Territory for the more complete endowment and maintenance" of the institutions that "had been established" or which "might hereafter be established" in accordance with the Morrill Acts.

It was so clearly evident that the District of Columbia, an integral part of the United States, and The George Washington University, in the District, doing the work prescribed by the Acts, were entitled to share in their benefits that a bill was introduced into the Senate of the United States to amend the Morrill Act of 1862 so that the District of Columbia and The George Washington University might be admitted to share in the annual appropriation under that act and the acts supplementary thereto.

After full consideration of the bill the Senate Committee on Agriculture, to which the bill had been referred, in a report on February 24, 1909, recommended its passage (Senate Report No. 1083, 60th Congress). This report so clearly states the University's position which was conclusive both to the committee that reported it and the entire Senate, that we quote very fully from it.

"The purpose of the bill is to make available for the District of Columbia the annual appropriations for the support of institutions giving instruction in Agriculture, the Mechanic Arts, and the other subjects specified in the so-called 'Morrill Act' of July 2, 1862, and in

the acts amendatory thereof. These annual appropriations are now made to States and Territories under the provisions of the act of August 30, 1890, and the supplementary act of March 4, 1907.

"The George Washington University in the District of Columbia, a non-sectarian institution, is designated by the bill to receive the appropriations under said acts of Congress as amended.

"From an examination of the acts known collectively as the 'Morrill Acts' it is apparent that the teaching of Agriculture in its several branches is by no means the only object for which the so-called Agricultural Colleges were established. In the curriculum prescribed for these colleges the teaching of the Mechanic Arts is placed on an equal footing with the teaching of Agriculture. The English language and military tactics are also expressly mentioned, while even classical studies are not excluded. That the intention of Senator Morrill was 'to give a chance to the industrial classes of the country to obtain a liberal education' is abundantly proven from his published speeches, and this broad interpretation has guided the Bureau of Education, as is shown in the circular letter of instructions issued to officials of the land-grant institutions.

"The term, 'the Mechanic Arts,' as shown in the reports of the Commissioner of Education, includes mechanical engineering, civil engineering, electrical engineering, mining engineering, chemical engineering, sanitary engineering, textile engineering, general engineering, architecture, household economy, chemistry, pharmacy, and general science.

"It appears from the report of the Commissioner of Education for 1907 that the agricultural and mechanical colleges are devoting themselves rather more to the mechanic arts and allied sciences than to agriculture:

"Of the total amount expended during the year the proportion expended for instruction in the several subjects was as follows: Agriculture, 17.7 per cent; mechanic arts, 30.9 per cent; English language, 10.9 per cent; mathematical science, 11.6 per cent; natural and physical science, 23.2 per cent; economic science, 5.7 per cent.

"Taken as a whole the students electing agricultural courses are greatly outnumbered by those engaged in the study of the Mechanic Arts.

"Seven institutions receiving annual appropriations for the year ended June 30, 1907, among them the West Virginia University and the Massachusetts Institute of Technology, expended nothing at all for the teaching of Agriculture, and of these at least two had no students in agriculture.

"It was not the intention of the act of 1862 to force each State to establish a college in order to benefit by the provisions of that act. At



least five institutions on private foundation, offering the prescribed courses of study, have been permitted to benefit thereby. These were: Purdue University, Indiana; the Massachusetts Institute of Technology; Rutgers Scientific School, New Jersey; Cornell University, New York; and Clemson Agricultural College, South Carolina. Purdue and Clemson have since become State-supported, but Rutgers, Cornell, and the Massachusetts Institute of Technology are still private corporations.

"There seems to be no good reason why the District of Columbia should not be included with the States and Territories, Hawaii, and Porto Rico in the terms and benefits of the Morrill Acts. It is as much a separate and integral portion of the country as any Territory, and would, in fact, have benefited by the Morrill Acts if its form of government had not been changed by Congress. The District has a large number of students attending schools of higher learning who should not be deprived of a privilege accorded to students elsewhere in the United States.

"The George Washington University, as your committee is informed, has established a College of Engineering and School of Architecture, and is prepared to offer very full courses in the Mechanic Arts and otherwise to comply with the requirements of the Morrill Acts. The University is already giving instruction in nine of the thirteen subjects embraced in the term 'the Mechanic Arts,' and in at least one subject properly classed as agricultural. Furthermore, in accordance with the proviso in the Nelson Amendment of March 4, 1907, it is planned to offer a graduate course in advanced agricultural science.

"Inasmuch as the proposed legislation would not diminish in the least the sums now being paid to other institutions, and for the reasons detailed above, your committee believe that the bill should become a law."

This bill was passed in the Senate by a unanimous vote, on March 3, 1909, too late, however, to be reached in the House.

#### THE BILL.

Senate Bill No. 530 was introduced by Senator Gallinger, at the present session of Congress, March 25, and reads as follows:

A Bill to amend an Act entitled "An Act donating public lands to the several States and Territories which may provide colleges for the benefit of Agriculture and the Mechanic Arts," approved July 2, 1862, and the Acts supplementary thereto, so as to extend the benefits thereof to the District of Columbia.

*Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That the Act of Con-*

gress entitled "An Act donating public lands to the several States and Territories which may provide colleges for the benefit of Agriculture and the Mechanic Arts," approved July 2, 1862, and all Acts supplementary thereto, be, and are hereby, amended so as to include in the terms and benefits of said Act and supplementary Acts the District of Columbia with the States and Territories, the intent being to make available for the District of Columbia the annual appropriations for the endowment, support, and maintenance of institutions giving instruction in Agriculture, the Mechanic Arts, and the other subjects specified in the said Act of Congress approved July 2, 1862, and a supplementary Act approved August 30, 1890, and a supplementary Act approved March 4, 1907, together with other Acts heretofore passed providing for annual appropriations for such colleges.

SEC. 2. That the George Washington University, in the District of Columbia, is hereby designated to receive the appropriations under said Acts of Congress: *Provided*, That it shall carry on courses of instruction in Agriculture and the Mechanic Arts, and in the other subjects required of the State institutions receiving said appropriations.

SEC. 3. That there shall be, and hereby is, annually appropriated, out of any money in the Treasury not otherwise appropriated, to be paid to said University, in accordance with the provisions of said acts as hereby amended, the same sum or sums as is and may be hereafter allowed under said acts to each State and Territory, including the present year.

SEC. 4. That the Secretary of Agriculture, the Secretary of the Interior, the Secretary of Commerce and Labor, and the Commissioner of Education shall be *ex officio* members of the Board of Trustees of said University, and an annual report shall be made to Congress regarding its educational work.

The obtaining of this annual appropriation is of great importance to the University. Its passage means in time an appropriation equivalent to the interest on \$1,250,000 of endowment. It, therefore, behooves every alumnus and friend of the University to coöperate *now* in the effort to obtain this appropriation. This can be done by writing to Senators and Representatives in behalf of the bill to be introduced at this session of Congress. It should appeal also to every inhabitant of the District who wishes to see justice done to it and to the cause of higher education, and who desires that every young man of the District of Columbia who wishes to fit himself for higher service in the professions and callings of life, shall be given the same opportunities and privileges that are enjoyed by the people of every State and Territory of the Union.



**FIRST PAN-AMERICAN SCIENTIFIC CONGRESS.**

This Congress was held at Santiago, Chile, from December 25, 1908, to January 6, 1909. Professor Charles E. Munroe, Dean of the Faculty of Graduate Studies, of The George Washington University; Professor W. H. Holmes, Chief of the Bureau of American Ethnology, Smithsonian Institution, and Mr. William A. Reid, LL.B. 1901, of New York City, were chosen to represent The George Washington University at the meetings of the Congress.

Professor Munroe was unable to attend, but contributed a paper on Statistics of the Use of Nitrate of Soda in the United States which was read by Professor Holmes. Professor Holmes read a paper entitled *The Peopling of America*.

Professor Holmes' report to the President of the University was read at a meeting of the University Council Saturday evening, March 6, 1909, and in part is as follows:

There were eighteen American delegates at the Congress. Of this delegation Dr. L. S. Rowe, University of Pennsylvania, was elected Chairman.

Early in December a number of the delegates met in Buenos Ayres where they were entertained by the President of the Republic. In December ten of the delegates crossed the Andes for Santiago. Seven North American and Central American republics and nine South American republics were represented at the Congress.

Popular interest centered largely about the sections dealing with practical problems as education, sanitation, social science and engineering.

By a practically unanimous vote it was decided to hold the next meeting in Washington in October, 1912.

This Congress was a decided step in the direction of bringing about a better understanding among the nations represented. It was an appreciable forward step in the development of the means and methods of promoting the common interests of the Continent. It was a step toward making the experience and the accumulated wisdom of each people represented, the experience and wisdom of all.

A resolution of thanks to Professor Holmes was passed by the Council for his excellent and complete report and his valuable services to the University as its representative.

**BRIEF MENTION.**

President Needham delivered the address at the University of Maryland on Academic Day, November 11, his subject being "Efficient Men the Aim of University Training"; and on December 30 he delivered another address before the Southern Educational Association at

Atlanta, entitled "The University's Service to the State." These addresses are published in the official reports of these meetings.

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Professor Gore, head of the Department of Mathematics, has recently delivered at Yale University two lectures, one upon "Industrial Combination and Economical Necessity," and the other upon "Failure of Anti-Trust Legislation." Professor Gore has also delivered a lecture at Princeton University on "Federal Control of Interstate Corporations."

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Dean Hodgkins delivered an address to the students of the McKinley Manual Training School of Washington, on "Engineering as a Profession," on March 24.

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The American Historical Review for April will contain an article contributed by Dr. Hermann Schoenfeld, Professor of Germanic Languages and Literatures, reviewing a recently published volume by Richard Charnatz, entitled "Austria's Inner History—1848 to 1908."

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Professor James MacBride Sterrett, President of the Southern Society for Philosophical Research, presided at the annual meeting in Baltimore, and gave the President's address on "The Proper Affiliation of Psychology: With Philosophy or with the Natural Sciences?" This address was published in the March number of the Psychological Review.

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Professor Mitchell Carroll gave an illustrated lecture Tuesday evening, March 9, at the Washington Public Library, under the auspices of the National Society of the Fine Arts. His subject was "Greek Legend and Archaeology." Early in April Professor Carroll will lecture at the University of Minnesota and at Manitoba College, Winnipeg, and promote in Minneapolis, Saint Paul and Winnipeg the formation of Societies of the Archaeological Institute of America, of which he is the Secretary.

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Messrs. Charles Scribner's Sons announce for early publication an English version of Eucken's "The Problem of Human Life," prepared by Professor Williston Hough, of The George Washington University, and Mr. Boyce Gibson, of the University of London.

Considerable interest attaches to this work, both on account of the wide circulation which it has had in the original, and owing to the fact that Professor Eucken received the award of the Nobel Prize for Literature last year.



The Luther Rice Mission Studies for the session of 1908-09 were conducted as University Extension Courses during the winter. There were four of these classes as follows:

"The Why and How of Foreign Missions," conducted by Professor Smith;

"The Moslem World," conducted by Assistant Professor Manning;

"The Nearer and Farther East," conducted by Miss Ellis; and

"The Frontier," conducted by Professor Wilbur.

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By invitation of the Faculty of the Theological Seminary of the Protestant Episcopal Church in Virginia, Dean William A. Wilbur gave a course of the Reinicker Lectures in January, on the subject, "Voices of the World in the Plays of Shakespeare."

Dean Wilbur has in preparation a text-book of "English Rhetoric," two sections of which, covering six chapters, are published and are in use in the English classes. The completed work will be published by Silver, Burdett & Co.

On April 14 Dean Wilbur will give a lecture before the District of Columbia Library Association, on the subject "Lyric Influences in the Poets' Corner of the Library of Congress."

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Assistant Professor Croissant gave a lecture on March 13 before the Federation of Women's Clubs in Washington, on the subject, "Colonial Literature in America." On March 31, Professor Croissant lectured before the Business High School on "Shakespeare's Theatre."

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Mr. Ellery C. Stowell, Secretary of the College of the Political Sciences, was Secretary of the American Legation to the Naval Conference, held in London last December. The purpose of this conference was to formulate an agreement upon the International Prize Law.

Mr. Stowell received from the University of Paris the degree of Doctor of Law, submitting a thesis upon the subject of "The Consular Office: Being an Attempt to Find a Systematic Arrangement for the Study and Classification of Consular Functions, Immunities, and Organization."

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Dr. N. C. Caldwell, of the Committee on Medical Education of the American Medical Association, and Mr. Abraham Flexner, of the Carnegie Foundation, visited and examined the Medical School, March 6, 1909. The Dean of the Medical School was congratulated by the Committee upon the efficiency of the work done in the School.

## THE ALUMNI.

Since its organization in 1821, the University has conferred 7129 degrees upon 5690 persons.

The Secretary of the General Alumni Association, whose office is at the University, endeavors to keep a list of the addresses of all Alumni. His catalogue now contains the addresses of nearly 4000 graduates. It is known that about 1200 are dead, and information is lacking in regard to the others. All Alumni are urged to keep the Secretary informed of any change of address or occupation, and to supply information in regard to their fellow Alumni.

The Secretary would like to receive the post-office address and other information regarding the following list of graduates, in order that bulletins and other printed matter may be sent them.

## ALUMNI WHOSE ADDRESSES ARE NOT KNOWN.

## A

Abbot, Howard S., Law 1872  
Acton, Robert Dow, Law 1907  
Adams, Sidney DeWitt, Law 1904  
Alden, Maurice LeRoy, Law 1897  
Alderson, George Price, Law 1905  
Alexander, Edward, Med. 1862  
Alexander, Lee M., Med. 1860  
Anderson, Frank Y., Law 1870  
Andrews, Mark Percy, Law 1890  
Aquilera, Ferdinando, Dent. 1895  
Armstrong, Ernest P., Law 1906  
Armstrong, J. Melville, Law 1871  
Armstrong, John Elmer, Sci. 1899  
Arnold, Stark W., Law 1872  
Atkins, Rev. Addison B., Hon. 1874  
Atwell, John E., Med. 1859  
Austin, Samuel Duffie, Med. 1905  
Austin, Walter Forward, Law 1898

## B

Babcock, James P., Law 1886  
Backus, William M., Med. 1876  
Bacon, Alexander P., Dent. 1900  
Bacon, Rev. Charles Baldwin, Coll. 1899  
Badger, Carlos Ashby, Law 1906  
Bailey, Edmund A., Law 1880  
Baker, George Wilson, Law 1896  
Baldwin, Charles C., Law 1894  
Baldwin, Julius Lyman, Law 1905  
Barker, John Richard, Law 1906  
Barnes, John Howard, Law 1902  
Barnes, Joseph D., Coll. 1858  
Barnes, Luther J., Coll. 1857  
Barnum, Zenus Francis, Law 1904  
Barrington, Philip F., Law 1889  
Bartlett, W. R., Law 1868  
Barton, Edward Everett, Law 1892  
Barton, Joseph William, Law 1876  
Barton, William K., Law 1888  
Beattie, Fountain Fox, Law 1902  
Beatty, Walter K., Med. 1894  
Beck, Benjamin Wixler, Law 1902  
Becker, Hubert L., Med. 1862  
Bedford, Wm. W., Law 1894  
Beeler, Adam M., Law 1906

Behymer, Glenarvon, Law 1906  
Bell, John W., Law 1868  
Bernard, Robert S., Med. 1858  
Berry, Vivian Pratt, Dent. 1904  
Berryhill, Alexander F., Med. 1891  
Bingham, Goudry W., Law 1899  
Bliss, Frank Cory, Law 1896  
Blomen, Jonas Emil, Grad. 1895  
Bogen, Eugene J., Law 1896  
Boly, William H., Vet. 1897  
Bone, Leonie, Law 1905  
Bonebrake, John Stidham, Law 1897  
Booth, Rev. John H., Hon. 1865  
Bowen, Francis Clare, Coll. 1868  
Bowen, J. E. M., Law 1874  
Bower, Charles Franklin, Med. 1907  
Bowlby, John Hudson, Law 1907  
Boyd, Edward Deering, Law 1877  
Bradley, Mrs. D. S., Grad. 1902  
Bradley, William H., Law 1876  
Bridgeman, Lonnes Earle, Grad. 1898  
Brockenbrough, Austin, Med. 1871  
Brown, Archibald Webster, Sci. 1899  
Brown, Basil A., Vet. 1897  
Brown, Charles A., Law 1895  
Brown, Rev. Charles T., Hon. 1870  
Brown, Harry Lee, Med. 1901  
Brown, Henry K., Hon. 1860  
Brown, James H., Med. 1860  
Brown, M. F. D., Hon. 1865  
Brown, O. D., Med. 1861  
Bryant, E. E., Law 1882  
Buchanan, James T., Law 1871  
Bullock, E. T., Law 1875  
Burgess, George, Law 1866  
Butcher, Benj. Hudson, Law 1877  
Butler, William Earle, Dent. 1905  
Butterfield, Elmore Everest, Med. 1903  
Butts, Alexander B., Law 1873  
Butts, Heber, Med. 1904  
Bynum, Dixon H., Law 1898

## C

Cadel, John Schaff, Law 1904  
Campbell, A. B., Med. 1859  
Campbell, George W., Law 1891  
Campbell, William Irwin, Law 1893



- Cannon, John, Law 1881  
 Carnes, Samuel Clifford, Law 1907  
 Carpenter, B. Watkins, Coll. 1858  
 Carrington, S. E., Law 1868  
 Carswell, Fontaine Lee, Med. 1906  
 Carter, Paul Irving, Med. 1907  
 Cartwright, Morgan R., Law 1902  
 Carver, Esack H., Law 1888  
 Case, J. A., Law 1887  
 Cassin, Stephen B., Dent. 1890  
 Castle, William H., Law 1869  
 Cavitt, Bruce, Law 1882  
 Caywood, John, Law 1897  
 Chadsey, William H., Law 1873  
 Chamberlain, J. B., Law 1887  
 Chambrun Count Pierre de, Law 1889  
 Chapin, Mary Katherine, Coll. 1896  
 Chapin, Seward B., Med. 1872  
 Chapman, William H., Law 1881  
 Chase, George Phillips, Law 1898  
 Chase, Morris W., Law 1889  
 Cheever, Alfred R., Juris. 1903  
 Cheney, Morton Mead, Law 1906  
 Chilton, A. A., Law 1867  
 Christie, Alexander S., Law 1885  
 Church, Samuel R., Coll. 1884  
 Clapp, Harry Lincoln, Law 1896  
 Clark, C. J., Law 1874  
 Clark, Ralph A., Law 1899  
 Clark, W. P., Law 1872  
 Clarke, John E., Law 1885  
 Clemons, Carl Anson, Med. 1898  
 Clendenin, James H., Law 1870  
 Clifford, John Sullivan, Med. 1906  
 Clifton, Horace Bradford, Law 1900  
 Cockerille, Paul, Coll. 1899  
 Codrington, Arthur Henry, Law 1906  
 Coffin, Allen, Law 1876  
 Cogley, Lucy Edith, Coll. 1893  
 Cohen, Henry M., Law 1890  
 Cohen, Louis, Law 1906  
 Colbert, Richard, Law 1902  
 Cole, Charles Orlando, Law 1905  
 Cole, Henry V., Law 1867  
 Coleman, George S., Law 1866  
 Coleman, R. Stuart, Law 1887  
 Collins, Henry Franklin, Med. 1901  
 Conant, Charles E., Law 1882  
 Conkling, B. D., Law 1883  
 Conner, Henry A., Law 1897  
 Connor, Charles Elmer, Law 1903  
 Connor, Thomas J., Law 1868  
 Conway, Marrinus W., Law 1873  
 Cook, France L., Law 1871  
 Cook, George L., Law 1868  
 Cook, Richard John, Law 1906  
 Cooke, Harry Lee, Law 1899  
 Cooley, Ida May, Grad. 1903  
 Cooley, W. B., Law 1879  
 Cooper, George H., Law 1871  
 Copeland, Hilbert Perry, Law 1904  
 Corwine, John A., Law 1870  
 Courtney, Michael L., Law 1870  
 Cowie, Lewis T., Law 1872  
 Craig, Henry Knox, Med. 1895  
 Cram, Archer Parria, Law 1902  
 Cram, Charles Maurice, Law 1904  
 Crawford, Jesse Padon, Law 1895  
 Crawford, John J., Law 1882  
 Crawshaw, Benjamin F., Law 1885  
 Crist, Frank Wiley, Law 1898  
 Crocker, Thomas S., Law 1891  
 Crossman, Charles S., Law 1884  
 Cross, Arthur Emerson, Law 1906  
 Cross, D. T., Law 1891  
 Culver, George Bliss, Law 1903  
 Cunningham, John Benedict, Law 1906  
 Curry, Clifford Tichenor, Law 1897  
 Curtiss, H. R., Law 1872  
 Cutting, Silas Henry, Law 1905  
 Cyrus, J. M., Law 1868
- D
- Dahl, Arthur L., Law 1905  
 Davids, Barkeley Reynolds, Law 1906  
 Davidson, George S., Med. 1891  
 Davidson, James A., Law 1892  
 Davidson, James M., Med. 1869  
 Davis, Charles W., Law 1901  
 Davis, Fred. L., Law 1898  
 Davis, James White, Dent. 1895  
 Davis, Thomas J., Juris. 1900  
 Davison, R. A., Law 1894  
 DeCamp, E. F., Law 1872  
 Decker, James A., Law 1869  
 Deller, Luster K., Law 1907  
 DeMass, Ralph Webster, Dent. 1905  
 Dement, Ralph Meade, Coll. 1875  
 Dennett, Frank E., Law 1893  
 Denniston, Frederick W., Law 1894  
 Dent, Sidney H., Law 1887  
 Depue, William B., Law 1895  
 Dewees, Louis L., Law 1888  
 Dodge, William S., Law 1867  
 Doerfling, Richard George, Sci. 1898  
 Donan, Henry, Law 1898  
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## ALUMNI NOTES.

Hon. Frank H. Hitchcock, of Massachusetts, LL.B. 1894, LL.M. 1895, is Postmaster-General in President Taft's Cabinet.

Ormsby McHarg, D.C.L., 1901, has been appointed Assistant Secretary of the Department of Commerce and Labor.

Hon. Fred Dennett, of North Dakota, LL.B. 1894, LL.M. 1895, is Commissioner of the General Land Office.

Col. Spencer Cosby, former student in Columbian College, and at one time District Commissioner, has been appointed Superintendent of Public Buildings and Grounds. This office carries with it close social relations with the President.

The following now in the Senate or House of Representatives were graduates or students in the University:

Senator Francis G. Newlands, of Nevada, now a Trustee of the University.

Hon. John H. Foster, of Indiana.

Hon. John W. Langley, of Kentucky.

Hon. John M. Reynolds, of Pennsylvania.

Hon. Amos Allen, of Maine.

A large number of Alumni of the University were prominently connected with the inauguration of President Taft, March 4, 1909.

Mr. E. J. Stellwagen, LL.B., 1875, President of the General Committee; one of the Vice-Presidents of the General Committee, one Chairman, and about 30 members. More than 350 of our graduates were members of special inaugural committees.





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PART I.

THE UNIVERSITY.



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# The George Washington University.

## UNIVERSITY CALENDAR.

1909.

June 9, *Wednesday*.—University Commencement.

### SUMMER VACATION.

September 29, *Wednesday*.—Academic Year begins in all Departments of the University.

October 20, *Wednesday*.—Fall Convocation.

November 25-27, *Thursday to Saturday*, both inclusive.—Thanksgiving recess.

RECESS FROM DECEMBER 24, 1909, TO JANUARY 1, 1910, BOTH INCLUSIVE, 1910.

January 3, *Monday*.—Last day on which dissertations may be presented.

January 31, *Monday*.—Mid-Year Examinations completed in the Department of Arts and Sciences.

January 31, *Monday*.—Doctorate Disputation.

February 1, *Tuesday*.—Second Term begins.

February 22, *Tuesday*.—Winter Convocation.

February 22, *Tuesday*.—Annual Meeting of the Alumni Association.

March 25-28, *Friday to Monday*, both inclusive.—Easter holidays.

April 12, *Tuesday*.—Davis Prize Speaking.

April 30, *Saturday*.—Last day on which Theses may be presented.

May 23, *Monday*.—Doctorate Disputation.

May 31 - June 3, *Tuesday to Friday*.—Examination for admission.

June 1, *Wednesday*.—Examinations for Degrees completed.

June 5, *Sunday*.—Baccalaureate Sermon.

June 8, *Wednesday*.—University Commencement.

*Sept 28 Wednesday, Academic year begins in all Depts of the University.*



## THE GEORGE WASHINGTON UNIVERSITY.

## BOARD OF TRUSTEES.

CHARLES WILLIS NEEDHAM, LL.D.,

President of the University and *ex-officio* Member of the Board.

1910.

SAMUEL H. GREENE, D.D., LL.D.	WILLIAM F. MATTINGLY, LL.D.
SAMUEL W. WOODWARD.	EUGENE LEVERING.
EDWARD M. GALLAUDET, LL.D.	HENRY C. YARROW, M.D.
JOHN JOY EDSON, LL.B.	

1911.

THOMAS H. ANDERSON.	HENNEN JENNINGS, C.E.
JOHN B. LARNER, LL.D.	HENRY B. F. MACFARLAND.

1912.

THEODORE W. NOYES, LL.M.	CHARLES W. RICHARDSON, M.D.
HENRY C. PERKINS.	CHARLES D. WALCOTT.
LEWIS FLEMER, Phar.D.	ABRAM LISNER.

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1909-1910.

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JENNINGS, PERKINS, NEEDHAM.  
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*Endowment:* PERKINS, WOODWARD, LEVERING.  
*Scholarships:* GALLAUDET, LEVERING.  
*Buildings and Grounds:* ANDERSON, MACFARLAND.  
*Publications:* GALLAUDET, WALCOTT.  
*Nominations:* LEVERING, NOYES, WOODWARD.  
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*College of Arts and Sciences:* GREENE, NOYES, LARNER.  
*College of Engineering:* LARNER, EDSON.  
*Teachers College:* NOYES, PERKINS.  
*Division of Architecture:* EDSON, NOYES.  
*Department of Law:* MATTINGLY, LARNER, ANDERSON.  
*Department of Medicine:* RICHARDSON, YARROW, LARNER.  
*Department of Dentistry:* YARROW, WOODWARD.  
*Hospital:* YARROW, RICHARDSON, EDSON.  
*College of Pharmacy:* HENRY, GREENE, RICHARDSON.

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COLLEGES OF THE UNIVERSITY.  
ON INDEPENDENT FOUNDATIONS.

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1908.

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HERBERT C. EASTERDAY, Phar.D.	WILLARD S. RICHARDSON, Phar.D.

1909.

FRANK C. HENRY, Phar.D.	H. E. KALUSOWSKI, M.D., Phar.D.
G. G. C. SIMMS, Phar.D.	SAMUEL L. HILTON, Phar.D.

1910.

WYMOND H. BRADBURY, Phar.D.	WALTER G. DUCKETT, Phar.D.
SAMUEL WAGGAMAN, M.D.	FRANK P. WELLER, Phar.D.

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College of Veterinary Medicine.

J. A. T. HALL.	DAVID E. BUCKINGHAM, V.M.D.
H. ROZIER DULANEY.	JOHN LOCKWOOD, V.S.
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## Officers.

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 HARRY C. DAVIS, L.H.D.....Secretary of the University

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 HENRY E. KALUSOWSKI, Phar.D.....Dean of the National College of  
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     Veterinary Medicine

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Professors and Assistant Professors in all Departments and Colleges  
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 appear in the list of Members of Faculties and Teaching Staff.

## MEMBERS OF FACULTIES AND TEACHING STAFF.

(Arranged, with the exception of the President, in groups, in the order of appointment.)

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 ALBERT F. A. KING, A.M., M.D., LL.D.....Professor of Obstetrics,  
 and Dean Emeritus of the Faculty of Medicine  
 THEODORE NICHOLAS GILL, M.D., Ph.D., LL.D....Professor of Zoölogy  
 JAMES HOWARD GORE, Ph.D.....Professor of Mathematics, Emeritus  
 GEORGE N. ACKER, A.M., M.D.....Professor of Pediatrics and  
 of Clinical Medicine  
 HOWARD LINCOLN HODGKINS, Ph.D.....Professor of Mathematics,  
 and Dean  
 HENRY CRÉCY YARROW, M.D.....Professor of Dermatology  
 D. KERFOOT SHUTE, A.B., M.D.....Professor of Anatomy and  
 of Ophthalmology  
 HENRY CLAY THOMPSON, D.D.S.....Professor of Operative Dentistry  
 JOHN MARSHALL HARLAN, LL.D.....Professor of Law  
 HERMANN SCHOENFELD, Ph.D., LL.D.....Professor of German  
 STERLING RUFFIN, M.D.....Professor of Medicine  
 JOHN VAN RENSSELAER, A.B., M.D.....Clinical Professor of Surgery  
 JAMES MACBRIDE STERRETT, A.M., D.D.....Professor of Philosophy,  
 Emeritus  
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 GEORGE P. MERRILL, Ph.D.....Professor of Geology and Mineralogy  
 CHARLES W. RICHARDSON, M.D..Professor of Laryngology, Rhinology  
 and Otology  
 FRANK WIGGLESWORTH CLARKE, Sc.D..Professor of Mineral Chemistry  
 HARVEY WASHINGTON WILEY, Ph.D., M.D...Professor of Agricultural  
 Chemistry  
 FRANK HAGAR BIGELOW, A.M., L.H.D.....Professor of Astro-Physics  
 MELVILLE CHURCH, LL.M.....Professor of the Law of Patents  
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 CHARLES CLINTON SWISHER, Ph.D., LL.D.....Professor of History  
 RANDOLPH B. CARMICHAEL, M.D...Clinical Professor of Dermatology  
 FRANCIS R. HAGNER, M.D.....Professor of Genito-Urinary Surgery  
 and Venereal Diseases  
 WALTER C. CLEPHANE, LL.M.....Professor of Law



- †DAVID JAYNE HILL, LL.D.....Professor of European Diplomacy  
 MITCHELL CARROLL, Ph.D.....Professor of Classical Languages and  
 Archaeology  
 PAUL BARTSCH, Ph.D.....Professor of Zoölogy  
 W. C. WOODWARD, M.D., LL.M.....Professor of Medical Jurisprudence  
 †H. P. BLAIR, LL.M.....Professor of Law  
 ALBERT L. STAVELY, M.D.....Clinical Professor of Gynecology  
 STANTON L. PEELE, LL.D.....Professor of Law  
 GEORGE N. HENNING, A.M.....Professor of Romance Languages  
 PERCY ASH, C.E.....Professor of Architecture, and Dean  
 JOHN PAUL EARNEST, A.M., LL.M.....Professor of Law  
 WILLIAM REYNOLDS VANCE, Ph.D., LL.B.....Dean of the Faculty of  
 Law and Professor of Law  
 J. ROLAND WALTON, D.D.S.....Professor of Prosthetic Dentistry and  
 Orthodontia, and Dean  
 WILLIAM A. WHITE, M.D..Professor of Mental and Nervous Diseases  
 ERNEST G. LORENZEN, Ph.B., LL.B., J.U.D.....Professor of Law  
 GEORGE LANSING RAYMOND, L.H.D.....Professor of Æsthetics  
 ALBERT BURNLEY BIBB.....Professor of Architecture  
 WILLISTON S. HOUGH, Ph.M..Professor of Psychology and Education,  
 and Dean  
 HENRY L. ABBOT, LL.D., Brig-Gen., U.S.A.,  
 Professor of Hydraulic Engineering  
 GEORGE M. STERNBERG, Surgeon-General, U.S.A.,  
 Professor of Preventive Medicine  
 JAMES BROWN SCOTT, M.A., J.U.D.....Professor of Law  
 EDWARD BENNETT ROSA, Ph.D.....Professor of Physics  
 ASAPH HALL, Ph.D.....Professor of Astronomy  
 ARTHUR A. SNYDER, M.D.....Clinical Professor of Surgery  
 I. W. BLACKBURN, M.D.....Professor of Morbid Anatomy  
 ALBERT MANN, A.M., Ph.D.....Professor of Botany  
 SAMUEL WAGGAMAN, M.D., Phar.D.....Professor of Materia Medica,  
 Botany and Toxicology  
 WILLIAM F. HILLEBRAND, Ph.D., Phar.D.....Professor of Chemistry  
 and Physics  
 FREDERICK A. HOLTON, B.S., Phar.D..Professor of Analytical Chemistry  
 HENRY E. KALUSOWSKI, M.D., Phar.D..Professor of Pharmacy, and  
 Dean  
 BURTON J. HOWARD, B.S.....Professor of Microscopy  
 EDWARD S. THURSTON, A.M., LL.B.....Professor of Law  
 WILLIAM C. DENNIS, A.M., LL.B.....Professor of Law

† Absent on leave.

HARRIETT STRATTON ELLIS, A.B.....	Dean of Women
SHEPHERD IVORY FRANZ, Ph.D.....	Professor of Physiology and Experimental Psychology
HENRY PARKER WILLIS, Ph.D.....	Professor of Finance
J. R. DEFARGES, M.D.....	Professor of Oral Surgery
JOSEPH JAMES KINYOUN, Ph.D., M.D.....	Professor of Pathology and Bacteriology
CHARLES SIDNEY SMITH, Ph.D.....	Professor of Greek and Latin
WENDELL P. STAFFORD, LL.D.....	Professor of Law
JOSIAH A. VAN ORSDER, LL.D.....	Professor of Law
ALEXANDER MUNCASTER, Phar.D., LL.B., LL.M.....	Professor of Pharmaceutical Jurisprudence
HENRY B. FLOYD, Phar.D.....	Professor of Mercantile Pharmacy
WILLIAM CLINE BORDEN, M.D., U.S.A. (retired)...	Professor of Surgery
JOHN R. WELLINGTON, M.D.....	Clinical Professor of Surgery
HURON W. LAWSON, M.D.....	Professor of Histology and Embryology and Associate in Surgery
D. WEBSTER PRENTISS, M.D.....	Professor of Hygiene
DAVID E. BUCKINGHAM, V.M.D.....	Professor of Materia Medica, Therapeutics, and Canine Practice, and Dean
JOHN LOCKWOOD, D.V.S.....	Professor of Veterinary Surgery
JOHN P. TURNER, V.M.D.....	Professor of Theory and Practice of Veterinary Medicine
ROBERT J. FORMAD, V.M.D., M.D....	Professor of Comparative Histology and Pathology
ADOLPH EICHORN, D.V.S.....	Professor of Meat Hygiene
ALBERT H. HASSAL, M.R.C.V.S.....	Professor of Veterinary Zoölogy
GEORGE H. HART, V.M.D., M.D.....	Professor of Sanitary Science and National Quarantine
BENJAMIN T. WOODWARD, V.M.D.....	Professor of Milk Hygiene and Dairy Inspection
ADRIAN V. HALL, V.M.D.....	Professor of Veterinary Anatomy
J. C. MONNET, M.A., LL.B.....	Professor of Law

## Associate Professors.

WILLIAM K. BUTLER, A.M., M.D.....	Associate Professor of Ophthalmology
J. R. DEFARGES, M.D.....	Associate Professor of Metallurgy, Professional Ethics, Dental Jurisprudence, and Economics
W. O. OWEN, M.D.....	Associate Professor of Anatomy
CHARLES T. BASSETT, D.D.S.....	Associate Professor in Charge of Dental Infirmary
ALLEN S. WOLFE, D.D.S....	Associate Professor of Crown and Bridge Work and Porcelain



- CADMUS LINDEN ODOR, D.D.S.....Associate Professor of Operative  
Technics and Comparative Anatomy  
W. FRANCIS LAWRENCE, D.D.S....Associate Professor of Prosthetic  
Technics

## Assistant Professors.

- EDWARD G. SEIBERT, M.D.....Assistant Professor in Chemistry and  
Instructor in Ophthalmology  
NEVIL MONROE HOPKINS, Ph.D.....Assistant Professor of Chemistry  
PHILANDER BETTS, E.E..Assistant Professor of Electrical Engineering  
EDWIN A. HILL, Ph.D.....Assistant Professor of Chemistry  
THOMAS MALCOLM PRICE, Ph.D.....Assistant Professor of Chemistry  
RAY SMITH BASSLER, Ph.D.....Assistant Professor of Geology  
TIMOTHY W. STANTON, Ph.D.....Assistant Professor of Paleontology  
PAUL N. PECK, A.M.....Assistant Professor of Mathematics  
DEWITT C. CROISSANT, A.B.....Assistant Professor of English  
ALFRED F. W. SCHMIDT, A.M.....Assistant Professor of German, and  
Librarian  
JONATHAN R. HAGAN, D.D.S....Assistant Professor of Dental Materia  
Medica and Therapeutics  
WILLIAM RAY MANNING, Ph.D.....Assistant Professor of History  
WILLIAM CARL RUEDIGER, Ph.D.....Assistant Professor of Educational  
Psychology  
LOUIS COHEN, B.S.....Assistant Professor of Mathematics  
PERLEY G. NUTTING, Ph.D.....Assistant Professor of Physics  
EDWIN V. DUNSTAN, C.E.....Assistant Professor of Civil Engineering  
OSCAR A. MECHLIN, C.E.....Assistant Professor of Civil Engineering  
ARTHUR CUTTS WILLARD, B.S.....Assistant Professor of Mechanical  
Engineering  
CHARLES MASON REMEY.....Assistant Professor of Architecture  
JAMES FREDERICK PEAKE, A.M.....Assistant Professor of History  
ISAAC KING PHELPS, Ph.D.....Assistant Professor of Chemistry  
HOWARD LEE MCBAIN, Ph.D....Assistant Professor of Political Science  
R. G. STAFFORD, D.V.M.....Assistant Professor of Anatomy

## Associates, Instructors, Demonstrators and Assistants.

- JOHN B. NICHOLS, M.D.....Associate in Medicine  
EDWARD E. MORSE, M.D.....Associate in Obstetrics  
JULIAN M. CABELL, M.D.....Associate in Obstetrics  
C. S. WHITE, M.D.....Associate in Surgery  
H. H. DONNALLY, A.M., M.D.....Associate in Medicine  
F. FREMONT-SMITH, M.D.....Associate in Pediatrics  
W. F. M. SOWERS, A.B., M.D.....Associate in Surgery  
G. BROWN MILLER, M.D.....Associate in Gynecology

- B. M. RANDOLPH, M.D.....Associate in Materia Medica and  
Therapeutics
- HENRY R. ELLIOTT, M.D....Associate in Physiology and Pharmacology
- W. R. BRANDENBURG, M.D.....Associate in Bacteriology and Pathology
- L. H. REICHELDERFER, M.D.....Clinical Associate in Surgery
- EDGAR P. COPELAND, M.D.....Clinical Associate in Pediatrics
- DUFF G. LEWIS, M.D.....Clinical Associate in Surgery
- J. T. KELLEY, M.D.....Clinical Associate in Surgery
- W. A. FRANKLAND, M.D.....Clinical Associate in Gynecology
- NOBLE P. BARNES, M.D.....Instructor in Materia Medica and  
Therapeutics
- SAMUEL H. GREENE, JR., M.D.....Instructor in Anatomy
- HOMER S. MEDFORD, M.D.....Instructor in Obstetrics
- J. L. RIGGLES, M.D.....Instructor in Anatomy and Gynecology
- JOHN WILMER LATIMER, LL.B.....Instructor in Law
- OTIS D. SWETT, M.S., LL.M.....Instructor in Chemistry
- WALTER H. MERRILL, M.D.....Instructor in Electro-Therapeutics
- O. A. M. MCKIMMIE, M.D.....Instructor in Laryngology and Otology
- H. S. DYE, M.D.....Instructor in Laryngology and Otology
- ADOLPH A. HOEHLING, JR., LL.M..Associate Justice of the Moot Court  
of Appeals
- TRUMAN ABBE, M.D.....Instructor in Physiology and Surgery
- J. LAWN THOMPSON, M.D.....Instructor in Surgery
- EVERETT W. VARNEY, A.B.....Instructor in Physics
- ALFRED G. BUHRMAN.....Clerk of the Moot Court
- GEORGE MORTON CHURCHILL, A.M.....Instructor in History
- CHARLES W. MORTIMER, B.S., M.E..Instructor in Electrical Engineering
- F. CHARLES STARR, B.S.....Instructor in Civil Engineering
- ELLERY C. STOWELL, "Docteur en droit"....Instructor in International  
Law
- W. W. WILKINSON, M.D.....Instructor in Medicine
- GEORGE B. HEINECKE, M.D.....Instructor in Anatomy
- VERGIL B. JACKSON, M.D.....Instructor in Anatomy and Gynecology
- E. T. M. FRANKLIN, M.D.....Instructor in Surgery
- W. J. FRENCH, M.D.....Instructor in Materia Medica and Pediatrics
- A. L. HUNT, M.D.....Instructor in Surgery
- CHARLES W. HYDE, M.D.....Instructor in Medicine
- E. P. MAGRUDER, A.M., M.D.....Instructor in Anatomy
- DANIEL T. BIRTWELL, M.D.....Instructor in Anatomy
- JOHN WINSLOW TAYLOR, D.D.S....Instructor in Prosthetic Technics
- ADAM KEMBLE, M.D.....Instructor in Pathology and Gynecology
- SOTHORON KEY, M.D.....Instructor in Medicine



H. G. FULLER, M.D.	Instructor in Genito-Urinary Surgery and Venereal Diseases
PRESLEY HUNT, M.D.	Instructor in Anatomy
E. B. JONES, M.D.	Instructor in Histology and Embryology
CLARA S. LUDLOW, M.D.	Instructor in Histology and Embryology
ROBERT R. KERN	Instructor in Economics
C. B. CONKLIN, M.D.	Instructor in Medicine
M. E. HARRISON, D.D.S.	Assistant Demonstrator in the Dental Infirmary
HOWARD M. BRADBURY, Phar.D.	Assistant in Chemistry
J. WILTON GRADY, Phar.D.	Assistant in Pharmacy
LOUIS B. CASTELL, Phar.D.	Assistant in Pharmacy
WILLIAM WEBB SNIFFIN, A.M.	Assistant in Romance Languages
W. H. I. FLEMING, B.S.	Assistant in Architecture
DELOS H. SMITH, B.S.	Assistant in Architecture
WILLIAM P. COLLINS, D.V.S.	Instructor in Clinical Veterinary Surgery
HULBERT YOUNG, V.M.D.	Special Lecturer and Demonstrator of Anatomy

## Lecturers.

DAVID J. BREWER, LL.D.	Lecturer on International Law
EDGAR BUCKINGHAM, Ph.D.	Lecturer of Thermodynamics
FREDERICK E. FOWLE, JR., S.B.	Lecturer on Astro-Physics
WILLIAM HAMILTON, Ph.D.	Lecturer on History
JOHN W. FOSTER, LL.D.	Lecturer on Diplomacy and Treaties
ELMER ELLSWORTH BROWN, Ph.D., LL.D.	Lecturer on Education
GEORGE E. MYERS, Ph.D.	Lecturer on Education
WILLARD S. SMALL, Ph.D.	Lecturer on Education
STEPHEN ELLIOTT KRAMER, B.S.	Lecturer on Education
JOHN BALL OSBORNE, M.A.	Lecturer on the Consular Service
A. H. SNOW, LL.B.	Lecturer on Theory of Colonial Government
PAUL CHARLTON	Lecturer on Colonial Administration

## Library.

ALFRED F. W. SCHMIDT, A.M.	Librarian
M. ALICE MATTHEWS, B.L.S.	Assistant Librarian

## ORGANIZATION.

The University embraces:

THE DEPARTMENT OF ARTS AND SCIENCES.  
The Faculty of Graduate Studies.  
The College of Arts and Sciences.

The College of Engineering and Mechanic Arts.  
The College of the Political Sciences.  
The Teachers College.  
The Division of Architecture.

THE PROFESSIONAL DEPARTMENTS.

The Department of Law.  
The Department of Medicine.  
The Department of Dentistry.  
National College of Pharmacy.  
The College of Veterinary Medicine.

THE UNIVERSITY LIBRARY.

The University Library comprehends (1) the Library of the Department of Arts and Sciences, (2) the Law Library, and (3) the Medical Library. It contains over 40,000 volumes.

The Library of the Department of Arts and Sciences includes the Germanic library of the late Professor Richard Heinzel of the University of Vienna, containing 7200 books and pamphlets in Germanic philology and literature, and cognate branches; the Classical Library of the late Professor Curt Wachsmuth, of the University of Leipzig, containing 7900 books and pamphlets in Greek and Roman literature, archæology, and history; the Mount Vernon Alcove of the Political Sciences, containing 3000 volumes in political history, international law, and the social sciences; and the divisional collections in engineering and mechanic arts, architecture, and education. A well-equipped reference and reading-room is open for study and consultation from 9 a. m. to 6.30 p. m. It contains encyclopedias, dictionaries, standard works in general literature and in the various departments of study comprised under University subjects, also leading literary and scientific magazines and reviews. Students may draw books over night, and upon the special recommendation of the professor in charge of the subject concerned, for longer periods.

The Law Library contains 4750 volumes and occupies a special room in the Law Building. It is open from 9 a. m. to 10 p. m.

The Medical Library, including the J. Ford Thompson collection of works on surgery, contains 2650 volumes and is shelved in a room in the Medical School. It is open from 9 a. m. to 10.30 p. m.

Besides, the student has access to the Library of Congress which, steadily perfecting its large collections of standard works in the various



branches of University study, affords exceptional facilities for research. In addition, the Public Library of the District of Columbia is being rapidly equipped with books of special importance to the University student, and its facilities are available under the most favorable conditions. Under certain restrictions, the libraries of the governmental departments may also be utilized. All these libraries are within easy reach of the University.

#### ANNUAL COMMENCEMENT AND FALL AND WINTER CONVOCATIONS.

The Annual Commencement is held on the second Wednesday in June. The Fall Convocation is held on the third Wednesday in October. The Winter Convocation is held on the 22d of February. Degrees are publicly conferred on Commencement Day and at the Fall and Winter Convocations. Members of the faculties and candidates for degrees are expected to appear in academic caps and gowns.

#### PRIVILEGES IN GOVERNMENTAL INSTITUTIONS OPEN TO UNIVERSITY STUDENTS.

In order to promote research and the diffusion of knowledge, the Congress of the United States has made the scientific resources of the Government accessible to students under the terms of the following joint resolution, approved April 12, 1892:

*Resolved by the Senate and House of Representatives of the United States of America in Congress assembled, That the facilities for research and illustration in the following and any other governmental collections now existing or hereafter to be established in the city of Washington for the promotion of knowledge shall be accessible, under such rules and restrictions as the officers in charge of each collection may prescribe, subject to such authority as is now or may hereafter be permitted by law, to the scientific investigators and to students of any institution of higher education now incorporated or hereafter to be incorporated under the laws of Congress or of the District of Columbia, to wit:*

1. Of the Library of Congress.
2. Of the National Museum.
3. Of the Patent Office.
4. Of the Bureau of Education.

5. Of the Bureau of Ethnology.
6. Of the Army Medical Museum.
7. Of the Department of Agriculture.
8. Of the Fish Commission.
9. Of the Botanic Gardens.
10. Of the Coast and Geodetic Survey.
11. Of the Geological Survey.
12. Of the Naval Observatory."

**Libraries.**—In the archives of the State and other Departments and in the statistical bureaus of these Departments are extensive accumulations of original historical documents and data which are invaluable to graduate students in history, political science, economics, sociology, and the allied topics of research. The Library of Congress, the Public Library of the District of Columbia, and the many highly specialized libraries attached to the various Departments of the Government are made easily accessible.

**Museums.**—In the collections of the National Museum, the Smithsonian Institution, the Army Medical Museum, the Museum of Naval Hygiene, and the departmental museums are found extensive series of specimens of great value to the student of anthropology, archæology, mineralogy, geology, paleontology, biology in all its branches, and other sciences. In the Patent Office are the records of the many inventions that have contributed so materially during our national existence to modify the conditions under which we live. The Army Medical Museum, which is open for inspection daily, presents a field for study superior to any other institution of the kind, either in this country or in Europe. Its library of medical books and periodicals is the best in the world. It has an unrivaled collection of anatomical and pathological specimens, illustrating normal anatomy and the results of disease in every form, and an almost unlimited number of other preparations showing the effect of gunshot wounds and surgical injuries of every kind. It also contains almost numberless crania of every human nationality. In the National Museum is found the most complete and best arranged collection of *Materia Medica* in the world. The drugs are shown in all their processes of manufacture, from the original package to the delicate alkaloid constituting the active principal.

**Laboratories.**—In the experimental sciences the most notable facilities are available, since in Washington are centered the Weather Bureau,



with its appliances for the study of national problems in meteorology; the Coast and Geodetic Survey, from which the surveys of our territory are carried on and by which the figure of the earth and terrestrial magnetism are experimentally determined; the Hydrographic Bureau, which conducts the surveys of foreign coasts and the study of the oceans; the Bureau of Standards, which standardizes the instruments used in measuring mass, volume, heat, light, electricity, and all other magnitudes; the Geological Survey, which investigates the structure of the earth, ascertains our mineral resources, and supervises the sources of supply and means for distribution and control of water for irrigation purposes; the Department of Agriculture, which exists primarily for conducting original investigations for the benefit of agriculture in all its branches, and is therefore provided with extensively equipped laboratories for the study of chemistry, botany, vegetable physiology, entomology, biochemistry, bacteriology, comparative pathology, parasitology, the physics and chemistry of the soil, forestry, and microscopy; the Naval Observatory and Nautical Almanac Office, where researches in astronomy and navigation are conducted; the Marine Hospital Service, which deals with national problems in hygiene; the Bureaus of Construction and of Steam Engineering of the Navy, having supervision over the designs and construction of our ships; the Bureau of Yards and Docks, having supervision over the engineering operations at our navy yards and naval stations; the Bureau of Equipment, which is charged with the electrical installations for the Navy; the United States Signal Corps, which has supervision over the electrical installations for the Army; the Engineer Corps of the Army, which is charged with river and harbor improvements, and the Light-House Board, which controls the system for lighting our navigable waters.

Of chemical laboratories for conducting the tests of materials, and especially for research work, there are now eighteen attached to the different departments at Washington. An extensive new laboratory is being equipped for the Marine Hospital and Public Health Service. This is the national health department of the Government. In this laboratory and in the laboratories of the Department of Agriculture there are superior facilities for all kinds of bacteriological and chemical investigations, and for the study of biochemistry, comparative pathology, and parasitology. The new laboratories and hospitals of the Army and the Navy also offer many opportunities for instruction.

Washington offers exceptional opportunities for special or advanced work in Mechanical Engineering. The departments of the Govern-

ment charged with designing are all located here. In the Bureaus of Steam Engineering and of Construction and Repair, and Ordnance, of the Navy, are projected a large amount and extensive variety of heavy constructional work. Here is also located the United States Navy or Ordnance Gun Factory. The Ordnance Proving Station is but a few miles down the Potomac. Tours of inspection may be made to the large steel-works and shipbuilding plants in Baltimore, and the shipbuilding plant at Newport News.





PART II.

DEPARTMENTS OF THE UNIVERSITY.





## Department of Arts and Sciences.

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The Department of Arts and Sciences is organized as follows:

### THE FACULTY OF GRADUATE STUDIES

Offers graduate seminary, laboratory, and lecture courses leading to the master's degrees, the engineering degrees (C.E., E.E., M.E.), and the degrees of Doctor of Jurisprudence and Doctor of Philosophy.

### THE FACULTY OF UNDERGRADUATE STUDIES

Offers undergraduate courses in arts, philosophy, and science, in the following colleges and divisions:

College of Arts and Sciences.

College of Engineering and Mechanic Arts.

College of the Political Sciences.

Teachers College.

Division of Architecture.

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### FACULTY OF GRADUATE STUDIES

CHARLES WILLIS NEEDHAM, LL.D. ....	PRESIDENT OF THE UNIVERSITY
JAMES HOWARD GORE, Ph.D. ....	Professor of Mathematics, Emeritus
HOWARD LINCOLN HODGKINS, Ph.D. ....	Professor of Mathematics
HERMANN SCHOENFELD, Ph.D. ....	Professor of German
JAMES MACBRIDE STERRETT, D.D. ....	Professor of Philosophy, Emeritus
CHARLES E. MUNROE, Ph.D. ....	Professor of Chemistry, and Dean
CHARLES CLINTON SWISHER, Ph.D., LL.D. ....	Professor of History
WILLIAM ALLEN WILBUR, A.M. ....	Professor of English
MITCHELL CARROLL, Ph.D. ....	Professor of Classical Languages
GEORGE N. HENNING, A.M. ....	Professor of Romance Languages
*THEODORE N. GILL, Ph.D. ....	Professor of Zoölogy
*FRANK W. CLARKE, Sc.D. ....	Professor of Mineral Chemistry
*HARVEY W. WILEY, Ph.D. ....	Professor of Agricultural Chemistry

\* Giving part time to teaching in the University.



- \*FRANK H. BIGELOW, L.H.D.....Professor of Astro-Physics  
 \*GEORGE P. MERRILL, Ph.D.....Professor of Geology and Mineralogy  
 \*PAUL BARTSCH, M.S., Ph.D.....Professor of Zoölogy  
 PERCY ASH, C.E.....Professor of Architecture  
 \*GEORGE LANSING RAYMOND, L.H.D.....Professor of Æsthetics  
 WILLISTON S. HOUGH, Ph.M..Professor of Psychology and Education  
 \*HENRY L. ABBOTT, LL.D., Brig.-Gen. U.S.A.....Professor of  
 Hydraulic Engineering  
 \*GEORGE M. STERNBERG, M.D., LL.D., Surgeon-Gen. U.S.A....Professor  
 of Preventive Medicine  
 \*EDWARD B. ROSA, Ph.D.....Professor of Physics  
 \*ASAPH HALL, JR., Ph.D.....Professor of Astronomy  
 \*SHEPHERD IVORY FRANZ, Ph.D..Professor of Experimental Psychology  
 HENRY PARKER WILLIS, Ph.D.....Professor of Finance  
 \*ALBERT MANN, A.M., Ph.D.....Professor of Botany  
 WILLIAM R. VANCE, LL.B., Ph.D.....Professor of Law  
 ERNEST G. LORENZEN, Ph.B., J.U.D.....Professor of Law  
 \*N. MONROE HOPKINS, Ph.D.....Assistant Professor of Chemistry  
 CHARLES SIDNEY SMITH, Ph.D.....Assistant Professor of Greek and  
 Latin  
 \*EDWIN A. HILL, Ph.D.....Assistant Professor of Stereo-Chemistry  
 PHILANDER BETTS, M.S., E.E.....Assistant Professor of Electrical  
 Engineering  
 \*TIMOTHY W. STANTON, Ph.D.....Assistant Professor of Paleontology  
 DEWITT C. CROISSANT, A.B.....Assistant Professor of English  
 ALFRED F. W. SCHMIDT, A.M.....Assistant Professor of German  
 EDWIN DUNSTAN, C.E.....Assistant Professor of Civil Engineering  
 OSCAR A. MECHLIN, C.E.....Assistant Professor of Civil Engineering  
 ARTHUR C. WILLARD, B.S.....Assistant Professor of Mechanical  
 Engineering  
 WILLIAM C. RUEDIGER, Ph.D.....Assistant Professor of Educational  
 Psychology  
 \*LOUIS COHEN, B.S.....Assistant Professor of Mathematics  
 WILLIAM RAY MANNING, Ph.D....Assistant Professor of Diplomatic  
 History  
 HOWARD LEE MCBAIN, Ph.D..Assistant Professor of Political Science  
 \*FREDERICK E. FOWLE, JR., S.B.....Lecturer on Astro-Physics  
 HARRY CASSELL DAVIS, L.H.D.....Secretary  
 \*EDGAR BUCKINGHAM, Ph.D.....Lecturer on Thermodynamics

\* Giving part time to teaching in the University.

The Division of Graduate Studies is charged with the development and supervision of research courses leading to the higher degrees. This work was organized at this University in 1893 with a view to enable properly equipped students to avail themselves of the advantages which Washington offers for original investigations. Announcements relative to the official matters of this Division are made by the Dean, and professors and students of this Division are expected to be governed by them.

#### HIGHER DEGREES.

The higher degrees conferred in course by the University in this Division of the Department of Arts and Sciences are Master of Arts (A.M.), Master of Science (M.S.), Civil Engineer (C.E.), Electrical Engineer (E.E.), Mechanical Engineer (M.E.), Doctor of Jurisprudence (Jur.D.), and Doctor of Philosophy (Ph.D.).

#### ADMISSION.

Candidates for admission to courses for higher degrees must present the diplomas they hold, or certificates that they have received such diplomas, to the Secretary of the University, and obtain from him application blanks. When properly filled and signed, these applications are to be submitted to the Dean of the Faculty of Graduate Studies, together with catalogues of the institutions from which the candidates hold their degrees and certificates of their course of study at such institutions. All such applications should be accompanied by testimonials as to character and scholarship.

#### DEGREES OF MASTER OF ARTS AND MASTER OF SCIENCE.

To be admitted to candidacy for the Master's degree a student must have completed a liberal undergraduate course of study such as is required by colleges of good standing antecedent to the baccalaureate degree. The Faculty of Graduate Studies reserves the right to decide in all cases whether the antecedent training fulfils the requirements. Moreover, the courses of study pursued must have been such as to qualify the candidate for pursuing the subjects chosen for the Master's degree. In seeking admission the applicant must state whether he desires to obtain the Specialist degree or the Liberal Culture degree.

The Specialist degree is designed for students who propose to proceed toward the Doctor of Philosophy degree. Such candidates are required to complete one major and two minor subjects selected from properly correlated University subjects approved by the Faculty upon recommendation of the professors in charge and to present a satisfactory dissertation. Only one of the minor topics may be selected from the University subject which includes his major topic. Work for which



this degree has been awarded may be credited as one year of work toward the Doctor of Philosophy degree, provided that it be in the same field of work.

The Liberal Culture degree is designed for students who do not intend to specialize in their work. Such candidates are required to complete three full courses of studies, of two or three hours each, distributed among three University subjects, not more than six hours of which shall be given to any one subject. These subjects must have the approval of the Faculty on the recommendation of the professors in charge. The candidate must also present a dissertation in the field to which his major subject belongs.

A candidate for a Master's degree must pass at least one full year in residence and study at this University, and no work done by him for the Bachelor's degree shall be counted again for a higher degree.

#### HIGHER DEGREES IN ENGINEERING.

To be admitted to candidacy for higher degrees in Engineering a student must have completed a liberal undergraduate course of study such as is required by colleges of good standing antecedent to the baccalaureate degree in Engineering, and of such a character as to fit him to pursue to advantage the study of advanced engineering topics. The Faculty of Graduate Studies reserves the right to decide in all cases whether the antecedent training fulfils the requirements. Moreover, the courses of study pursued for the Bachelor's degree must be approved by the Faculty as qualifying the candidate for pursuing the chosen line of study for the degree sought.

A candidate for a degree in Engineering shall pass at least one full year of residence and study at this University, sustain satisfactory examinations on the studies pursued and present an acceptable thesis, together with a bibliography. Three full courses is the minimum required as constituting a full year's work. The courses chosen must be passed upon by the Faculty of Graduate Studies and have the approval of the professors under whom they are to be taken.

#### DOCTOR'S DEGREES.

The degree of Doctor of Jurisprudence or Doctor of Philosophy is conferred upon a student who has pursued specialized courses in University Subjects; engaged in original research in certain of the various departments of law, letters or science under university auspices, for a period of not less than three years; has submitted an acceptable thesis, and has met all the requirements prescribed. The degree is given for high attainments and proved ability to do research work in some special branch of knowledge, as determined by the various tests applied.

Before a student can be admitted to candidacy for the Doctor's degree he must give evidence that he has completed a liberal undergraduate course of academic study such as is required by colleges of good standing antecedent to the baccalaureate degree, and of such a character as to fit him to pursue to advantage researches in the field chosen for graduate work. The Faculty of Graduate Studies reserves the right to decide in all cases whether the antecedent training fulfils the requirements. The applicant may be credited with graduate work done at other universities, provided such work is shown to be of grade similar to that required here, but the last year must be spent in residence at this University and the other requirements of the degree as prescribed must be fulfilled.

The candidate for the Doctor's degree shall offer three topics from the University Subjects—one major and two collateral minor studies—the combination to be approved by the Faculty of Graduate Studies. These must be pursued under the guidance of a committee consisting of the professors in charge of the University Subjects in which the studies are pursued, with the professor in the major subject as chairman. This committee will determine his division of time, study, and research among the major and minor topics, but in general the major topic should be pursued during the whole time devoted to graduate work, and each minor topic during at least one year. The candidate shall pass satisfactory examinations upon the three subjects selected. He must satisfy the Faculty that he can read understandingly, in the original, French and German works pertaining to his special field. In order to graduate the candidate must possess a broad acquaintance with his major subject and he must present a dissertation upon some topic approved by the professor in charge of his major subject, which shall be a contribution to knowledge and which shall be accompanied by an adequate bibliography.

#### EXAMINATIONS.

Candidates must pass written examinations upon all their topics. The examinations upon the minor topics may be taken at the close of the respective years in which these topics are completed, or later, at the discretion of the examiner. The final written examination on the major topic shall cover the candidate's entire university work, and shall be given when the professor of that subject is satisfied that the student has taken sufficient work to warrant such an examination being taken.

Every candidate for a Doctor's degree must pass an oral examination in all these subjects, and must defend his dissertation in the presence of the Faculty of Graduate Studies, or of so many of its members as may desire or may be designated by the Faculty to attend, and such other



specialists as it may invite. The oral examination will not be confined to the dissertation nor to courses of study pursued at this University, but the candidate is expected to show a satisfactory knowledge of his major subject as a whole, and a general acquaintance with the broader field of knowledge of which this subject forms a part. If a student has satisfactorily passed his final written examinations, he may be permitted to complete his dissertation away from the University and to postpone the taking of his oral examination until he has thus completed his dissertation.

The subjects from which the candidate's selection may be made, as the Faculty may determine in each case, are as follows:

Agriculture, Applied Mathematics, Architecture, Astronomy, Astrophysics, Bacteriology, Botany, Chemistry, Classical Archæology, Economics, Education, Civil Engineering, Electrical Engineering, Hydraulic Engineering, Mechanical Engineering, English, Ethics, Geology and Mineralogy, Germanic Languages and Literature, Greek Language and Literature, Histology and Embryology, History, International Law and Diplomacy, Latin Language and Literature, Law, Mathematics, Meteorology, Pathology, Philosophy, Physics, Physiology and Pharmacology, Political Sciences, Preventive Medicine, Psychology, Romance Language and Literature, Semitic Languages and Literature, Sociology, Zoology.

#### DEGREE OF DOCTOR OF JURISPRUDENCE.

Candidates for this degree must hold the degree of Bachelor of Law from this University or from some other institution requiring equivalent work as a prerequisite for this degree, in addition to satisfying the requirements for admission to candidacy for a Doctor's degree set forth above. He must possess a reading knowledge of Latin, French, and German. His major topic, and at least one of his minor topics, must be in subjects taught in the Department of Law and Jurisprudence, but the other minor may be chosen from any University Subject which is properly related to his major topic. The degree is given for high attainments and proved ability to do research work in some special branch of law, as determined by the various tests applied.

#### DEGREE OF DOCTOR OF PHILOSOPHY.

Candidates for this degree may, with the approval of the Faculty upon recommendation of the professors in charge, select their topics from properly correlated University Subjects, but only one of the minor topics may be in the subject which includes the major topic. He must by the tests applied prove his ability to do research work and his thorough acquaintance with the literature of the subject of which his dissertation treats.

## REGULATIONS REGARDING DISSERTATIONS.

Dissertations must be presented to the Dean not later than May 1 for graduation in June, or January 3 for graduation at the Winter Convocation. They must be typewritten on official dissertation paper, which may be obtained from the Treasurer of the University. The dissertation will be presented by the Dean to the Faculty, and by it referred to a committee for examination as to its merit. After their acceptance, dissertations, with their accompanying drawings, are the property of the University, and must be deposited in the University archives, but the authors of them are permitted to make copies. The candidate shall arrange, to the satisfaction of the Faculty, to print his dissertation within one year after the degree is granted, under the supervision of the professor in charge of his major subject, and shall present one hundred copies to the University, to be distributed among institutions of learning.

## DOCTORATE DISPUTATIONS.

A Doctorate Disputation was held publicly in University Hall, May 25, 1908. The theses that were successfully defended, the candidates, and the members of the boards of experts were as follows:

*Thesis:* Phosphorus metabolism experiments. By FRANK CUMMINGS COOK, B.A., 1900; M.A., 1902; M.S., 1904, Yale University. Before Professor GEORGE M. KOBER, M.D., Dean Medical Department, Georgetown University; REID HUNT, Ph.D., Chief of Division of Pharmacology, Public Health and Marine Hospital Service; WILLIAM O. EMERY, Ph.D., Organic Chemist, Bureau of Chemistry, U. S. Department of Agriculture. Assistant Professor EDWARD G. SEIBERT, M.D., presiding.

*Thesis:* The overthrow of the concordat by the third republic. By BENJAMIN GEORGE WILKINSON, B.A., 1897, University of Michigan; M.A., 1905, Union College. Before Hon. HANNIS TAYLOR, LL.D.; Rev. FRANK SEWALL, S.T.D.; HOWARD HAMBLETT COOK, Ph.D. Professor CHARLES C. SWISHER, Ph.D., LL.D., presiding.

A midwinter Doctorate Disputation was held publicly in University Hall, Monday, February 1, 1909, as follows:

*Thesis:* Economic geology of the Kenova quadrangle in Kentucky, Ohio, and West Virginia. By WILLIAM CLIFTON PHALEN, S.B., 1899; S.M., 1902, Massachusetts Institute of Technology. Before J. S. DILLER, B.S., Geologist, United States Geological Survey; EDWARD O. ULRICH, Sc.D., Geologist, United States Geological Survey; DAVID WHITE, B.S., Geologist, United States Geological Survey. Professor GEORGE P. MERRILL, Ph.D., presiding.

A Doctorate Disputation was held publicly in University Hall, May 24, 1909. The theses that were successfully defended, the candidates, and the members of the Board of Experts were as follows:

*Thesis:* The effect of cold storage on chicken meat. By HARRY WILSON HOUGHTON, B.S., 1906; M.S., 1907, The George Washington University. Before W. D. BIGELOW, Ph.D., Chief, Division of Foods, U. S. Department of



Agriculture; J. H. KASTLE, Ph.D., Chief, Division of Chemistry, Hygienic Laboratory, U. S. Public Health and Marine Hospital Service; C. F. LANGWORTHY, Ph.D., Chief, Nutrition Investigations, Office of Experiment Stations. Assistant Professor THOMAS M. PRICE, Ph.D., presiding.

*Thesis:* The possibility of shellfish contamination from sewage-polluted waters. By GEORGE WHITFIELD STILES, JR., B.S., 1900, Oklahoma Agricultural and Mechanical College; M.D., 1905, The George Washington University. Before BENJAMIN MEADE BOLTON, M.D., Expert in Experimental Therapeutics, Bureau of Animal Industry; Lt.-Col. W. C. BORDEN, U.S.A. (retired), M.D.; JOHN R. MOHLER, V.M.D., Chief, Pathological Division, Bureau of Animal Industry. Professor GEORGE M. STERNBERG, M.D., LL.D., Surgeon-General U. S. A. (retired), presiding.

*Thesis:* Martin Luther's political reforms of Germany. By LUTHER HESS WARING, B.A., 1905, The George Washington University; M.A., 1904, Columbian University. Before Rev. GEORGE BROTHAGE, Ph.D., D.D.; Hon. HANNIS TAYLOR, LL.D.; Rev. CHARLES WOOD, D.D. Professor HERMANN SCHOENFELD, Ph.D., LL.D., presiding.

#### UNIVERSITY FELLOWSHIPS.

The Board of Trustees established five Fellowships in Graduate Studies, which became available for the academic year of 1908-1909. One of these Fellowships yields \$600; two, \$500, and two, \$400 per annum, but they do not exempt the holder from the charges for tuition. The holders of these Fellowships are expected to teach Undergraduate classes not less than two, nor more than eight hours a week in the departments of instruction in which they are pursuing graduate work. These Fellowships are to be bestowed upon candidates who take regular Graduate courses with a view to the Doctor of Philosophy degree and expect to devote their lives to teaching or research in some branch of science, politics or letters. The appointments for the session of 1909-10 are filled by the Committee on Fellowships under the following regulations:

1. The application should be made in writing, to the Dean of the Faculty of Graduate Studies, and he will refer the papers to the Committee on Fellowships, by whom the appointments are made. Hereafter applications for Fellowships for the next session should be on file by May 1.

2. Testimonials and references should accompany the application. The candidate must give evidence of a liberal education, such as a Bachelor's degree from a college in good repute; of decided capacity for research, such as a piece of scientific or literary work already performed; and of upright character and high attainments, such as testimonials from former instructors.

3. In making appointments, the Committee will first consider candidates who have already done graduate work in this University, then candidates who have done graduate work in other universities, then candidates who have engaged in research under other than university

auspices, but in every case the final decision will be determined by fitness for the Fellowship awarded.

4. Every holder of a Fellowship is expected to give from two to eight hours of instruction in the departments of the University in which he is a candidate for a degree.

5. He must reside in Washington during the academic year, and will be expected to devote his time to the prosecution of his special studies, under the direction of the professors in charge, with a view to the attainment of the Ph.D. degree. He may not engage in any occupation outside of his regular University duties without leave of the Committee on Fellowships.

6. He may be reappointed at the end of the year, but only for exceptional reasons.

7. Doctors of Philosophy of this and other universities of high grade may be appointed Fellows by Courtesy in this University and enjoy all its opportunities for research without charge.

#### TEACHING FELLOWS.

HOWARD BISHOP LEWIS, B.A. .... Teaching Fellow, Department of Chemistry  
 PHILIP JOHNSON, A.M., B.D. .... Teaching Fellow, Department of Philosophy

#### THE FACULTY OF UNDERGRADUATE STUDIES.

CHARLES WILLIS NEEDHAM, LL.D. .... PRESIDENT OF THE UNIVERSITY  
 JAMES HOWARD GORE, Ph.D. .... Professor of Mathematics, Emeritus  
 HOWARD LINCOLN HODGKINS, Ph.D. .... Professor of Mathematics, and  
 Dean of the College of Engineering and Mechanic Arts  
 HERMANN SCHOENFELD, Ph.D., LL.D. .... Professor of German  
 JAMES MACBRIDE STERRETT, A.M., D.D. .... Professor of Philosophy,  
 Emeritus  
 CHARLES EDWARD MUNROE, Ph.D. .... Professor of Chemistry, and Dean  
 of the Faculty of Graduate Studies  
 \*GEORGE P. MERRILL, Ph.D. .... Professor of Geology and Mineralogy  
 WILLIAM ALLEN WILBUR, A.M. .... Professor of English, and Dean of  
 the College of Arts and Sciences  
 CHARLES CLINTON SWISHER, Ph.D., LL.D. .... Professor of History  
 MITCHELL CARROLL, Ph.D. .... Professor of Classical Languages  
 \*PAUL BARTSCH, Ph.D. .... Professor of Zoölogy  
 GEORGE N. HENNING, A.M. .... Professor of Romance Languages  
 PERCY ASH, C.E. .... Professor of Architecture, and Dean  
 \*GEORGE LANSING RAYMOND, L.H.D. .... Professor of Æsthetics  
 ALBERT BURNLEY BIBB. .... Professor of Architecture

\* Giving part time to teaching in the University.



- WILLISTON S. HOUGH, Ph.M.. Professor of Psychology and Education,  
and Dean of the Teachers College
- \*JAMES BROWN SCOTT, M.A., J.U.D.... Professor of International Law
- \*ALBERT MANN, Ph.D..... Professor of Botany
- HARRIETT STRATTON ELLIS, A.B..... Dean of Women
- HENRY PARKER WILLIS, Ph.D..... Professor of Finance
- CHARLES SIDNEY SMITH, Ph.D..... Professor of Greek and Latin
- \*NEVIL MONROE HOPKINS, Ph.D..... Assistant Professor of Chemistry
- PHILANDER BETTS, E.E.. Assistant Professor of Electrical Engineering
- \*EDWIN A. HILL, Ph.D..... Assistant Professor of Chemistry
- \*THOMAS MALCOLM PRICE, Ph.D.... Assistant Professor of Chemistry
- \*RAY SMITH BASSLER, Ph.D..... Assistant Professor of Geology
- PAUL N. PECK, A.M..... Assistant Professor of Mathematics
- DE WITT C. CROISSANT, A.B..... Assistant Professor of English
- ALFRED F. W. SCHMIDT, A.M..... Assistant Professor of German
- EDWIN V. DUNSTAN, C.E.... Assistant Professor of Civil Engineering
- OSCAR A. MECHLIN, C.E.... Assistant Professor of Civil Engineering
- ARTHUR CUTTS WILLARD, B.S..... Assistant Professor of Mechanical  
Engineering
- WILLIAM RAY MANNING, Ph.D..... Assistant Professor of History
- WILLIAM CARL RUEDIGER, Ph.D.... Assistant Professor of Educational  
Psychology
- †CHARLES MASON REMEY..... Assistant Professor of Architecture
- JAMES FREDERICK PEAKE, A.M..... Assistant Professor of History
- HOWARD LEE MCBAIN, Ph.D.. Assistant Professor of Political Science
- OTIS D. SWETT, M.S., LL.M..... Instructor in Chemistry
- EVERETT W. VARNEY, A.B..... Instructor in Physics
- F. CHARLES STARR, B.S..... Instructor in Civil Engineering
- ELLERY C. STOWELL, "Docteur en droit".. Instructor in International  
Law
- CHARLES W. MORTIMER, B.S..... Instructor in Electrical Engineering
- \*GEORGE MORTON CHURCHILL, A.M..... Instructor in History
- ROBERT R. KERN..... Instructor in Economics
- WILLIAM WEBB SNIFFIN, A.M..... Assistant of Romance Languages

#### EXECUTIVE FACULTIES.

##### College of Arts and Sciences.

DEAN WILBUR, Professors MUNROE, CARROLL, HENNING, Assistant  
Professors SCHMIDT, PEAKE, PECK.

\* Giving part time to teaching in the University.

† Absent on leave.

**College of Engineering and Mechanic Arts.**

Dean HODGKINS, Professors SCHOENFELD, MERRILL, Assistant Professors BETTS, PECK, CROISSANT, DUNSTAN, MECHLIN, WILLARD.

**College of the Political Sciences.**

Dean MCBAIN, Professors SWISHER, LORENZEN, SCOTT, WILLIS, and Assistant Professor MANNING.

**Teachers College.**

Dean HOUGH, Professors BARTSCH, SMITH, FRANZ, Assistant Professors CROISSANT, RUEDIGER, and Dr. MYERS.

**Division of Architecture.**

Dean ASH, Professors RAYMOND, BIBB, Assistant Professor REMEX.



## COLLEGE OF ARTS AND SCIENCES

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The session of 1909-1910 begins Wednesday, September 29, 1909.

The College of Arts and Sciences is open to men and women. The courses of study are conducted mainly in the University Building, corner Fifteenth and H streets, N. W. The office of the Dean is in this building.

The Woman's Building, within four minutes' walk, is situated at 1538 I street.

### ADMISSION.

Every applicant for admission is required to present a testimonial of good character, and also a certificate of standing and regular dismissal from the school or college which he has attended or from the tutor with whom he has studied.

Candidates for admission to the Freshman Class may present certificates of admission or take an examination in the required subjects. Certificates, in lieu of any or all examinations, will be accepted from schools whose work is attested by well-prepared students admitted to the University in previous years, and from schools desiring coöperation with the University, that present evidence of affording adequate preparation in the required subjects. The Secretary of the University will, on application, furnish certificate blanks to the principals of such accredited schools.

The certificate of the College Entrance Examination Board will be accepted in so far as the subjects specified meet the requirements for admission.

*The requirement for admission is a four-year high school course, or its equivalent, amounting to fifteen "units." A unit is a subject studied one school-year of five periods a week. Seventy-five such periods or "counts" make the fifteen-unit requirement.*

*These fifteen units must include English, 3 units; Mathematics, 2 units; and one of the following languages: Latin, 4 units; Greek, 3 units; French, 2 units; German, 2 units; or Spanish, 2 units. The remainder of the requirement is elective and may be satisfied in general by any high school subject approved by the College Entrance Examination Board. Subjects that will be accepted are described in the following pages under "Definition of Requirements."*

### EXAMINATIONS FOR ADMISSION.

The regular examinations for admission to the Freshman Class are held in University Hall, corner of Fifteenth and H streets, N. W.

during the week preceding the Commencement. The following is the schedule for the examination:

*May 31, 1910.*

Registration of Applicants at the Dean's office.....	8.30- 9.00
Elementary Latin .....	9.00-11.00
Plane Geometry .....	11.00- 1.00
Physics .....	2.00- 4.00
Greek .....	2.00- 5.00

*June 1.*

Elementary Algebra .....	9.00-11.00
Elementary French .....	11.00- 1.00
German .....	2.00- 4.00
Ancient History .....	4.00- 6.00

*June 2.*

Plane Trigonometry .....	9.00-11.00
Advanced French, Advanced German.....	11.00- 1.00
English .....	2.00- 5.00

*June 3.*

Advanced Algebra .....	9.00-11.00
Solid Geometry .....	11.00- 1.00
Chemistry; Advanced Latin.....	2.00- 4.00
English History .....	4.00- 6.00

Subjects offered for admission, but not named in the schedule of examinations, will be arranged for as occasion arises.

Unless admitted by certificate, every undergraduate candidate for a degree is required to pass an examination.

## DEFINITION OF REQUIREMENTS.

### ENGLISH.

(Counting three units.)

No candidate will be accepted in English whose work is notably defective in point of spelling, punctuation, idiom, or division into paragraphs.

a. **READING AND PRACTICE**—one and one-half units. The form of examination will usually be the writing of a paragraph or two on each of several topics to be chosen by the candidate from a considerable number—perhaps ten or fifteen—given in the examination paper. The treatment of these topics is designed to test the candidate's power of clear and accurate expression, and will call for only a general knowl-



edge of the substance of the books. *In every case knowledge of the book will be regarded as less important than the ability to write good English.* In preparation for this part of the examination, it is important that the candidate shall have been instructed in the fundamental principles of rhetoric.

Candidates should read the books prescribed for the year in which they propose to present themselves for this part of the examination.

In 1909, 1910, and 1911, the ten books for reading and practice selected from the list recommended by the Conference on Uniform Entrance Requirements in English, are as follows:

Shakespeare's *As You Like It* and *Julius Cæsar*; *The Sir Roger de Coverley Papers* in the Spectator; Chaucer's *Prologue*; Thackeray's *Henry Esmond* and Dickens' *A Tale of Two Cities*; Lamb's *Essays of Elia* and Ruskin's *Sesame and Lilies*; Coleridge's *The Ancient Mariner* and Tennyson's *Gareth*; and *Lynette, Lancelot and Elaine*, and *The Passing of Arthur*.

A candidate may, by giving due notice, substitute any other list that conforms to the requirements recommended by the Conference on Uniform Entrance Requirements in English.

b. STUDY AND PRACTICE—ONE and one-half units. This part of the examination presupposes the thorough study of each of the works named below. The examination will be upon subject-matter, form, and structure. In addition, the candidate may be required to answer questions involving the essentials of English grammar, and questions on the leading facts in those periods of English literary history to which the prescribed works belong.

The books set for this part of the examination will be:

1909, 1910, 1911: Shakespeare's *Macbeth*; Milton's *Lycidas*, *Comus*, *L'Allegro*, and *Il Penseroso*; Burke's *Speech on Conciliation with America*, or Washington's *Farewell Address* and Webster's *First Bunker Hill Oration*; Macaulay's *Life of Johnson*, or Carlyle's *Essay on Burns*.

#### LATIN.

*Elementary* (counting two units).

- a. i. Latin Grammar: The inflections; the simpler rules for composition and derivation of words; syntax of cases and the verbs; structure of sentences in general, with particular regard to relative and conditional sentences, indirect discourse, and the subjunctive.
- ii. Latin Prose Composition: Translation into Latin of detached sentences and easy continuous prose based upon Cæsar.
- b. Cæsar: Any four books of the Gallic War, preferably the first four.

*Advanced* (counting two units).

- a. Cicero: Any six orations from the following list, but preferably the first six mentioned:

The four orations against Catiline, Archias, the Manilian Law, Marcellus, Roscius, Milo, Sestius, Ligarius, the Fourteenth Philippic.

- b. Vergil: The first six books of the *Æneid*.  
 c. Advanced Prose Composition, consisting of continuous prose of moderate difficulty based on Cicero.  
 d. Sight Translation, based on prose of no greater difficulty than the easier portions of Cicero's orations.

#### GREEK.

*Elementary* (counting two units).

- a. i. Greek Grammar: The topics for the examination in Greek grammar are similar to those detailed under Latin grammar.  
 ii. Greek Prose Composition, consisting principally of detached sentences to test the candidate's knowledge of grammatical constructions.

The examination in grammar and prose composition will be based on the first two books of Xenophon's *Anabasis*.

- b. Xenophon: The first four books of the *Anabasis*.

*Advanced* (counting one unit).

- a. Homer: The first three books of the *Iliad* (omitting II, 494, to end).  
 b. Sight Translation, based on prose of no greater difficulty than Xenophon's *Anabasis*.

#### FRENCH.

*Elementary* (counting two units). Candidates in Elementary French must have a good knowledge of the essential parts of grammar, with stress on pronouns and on regular verbs and the common irregular verbs. They must know the principles of pronunciation; must be able to translate simple English sentences or easy connected prose into French, and to translate accurately ordinary modern French prose. Candidates must have translated not less than 450 duodecimo pages by at least four different authors, of which amount at least one-third must be history. Candidates must have had a two-years' course of five periods per week.

*Advanced* (counting two units). Candidates in Advanced French must have partly translated, partly read, in addition to the requirements for Elementary French, at least 1000 pages of difficult French of several different authors, including history, fiction, drama, and



poetry. Candidates must have had a four-years' course of five periods per week.

Fraser and Squair's French Grammar or Grandgent's Essentials of French Grammar is recommended.

### SPANISH.

(Counting two units.)

Candidates in Spanish must have a good knowledge of grammar, including syntax, with stress on pronouns and verbs, regular and irregular. They must know the principles of pronunciation. They must be able to translate simple English sentences or easy connected prose into Spanish, and to translate accurately fairly difficult modern Spanish prose and verse. Candidates must have translated not less than 500 pages by at least four different authors, of which amount at least one-fourth must be history or drama. Candidates must have had a two-years' course of five periods per week.

### GERMAN.

*Elementary* (counting two units). Candidates in Elementary German must have had a two-years' course of five periods a week. They must be able to read fluently at sight and to translate easy narrative prose and poetry. An accurate knowledge of an elementary German grammar is requisite, to be tested by the translation into German of some fifteen sentences. About 300 pages of graduated narrative prose, one short play, and such poetry as is usually found in a First Reader will be considered an adequate preparation.

*Advanced* (counting two units). Candidates in Advanced German must have had a four-years' course of five periods a week. They should be well trained in the syntactical laws of the language, have read about 800 pages of good literature in prose, preferably such prose works as are given in the Report of the Committee of Twelve of the Modern Language Association, and poetry, especially dramas by Lessing, Schiller, and Goethe, and studied an elementary history of German literature. German composition should comprise a number of short themes upon assigned historical or literary topics, lives of the authors read, etc.

### HISTORY.

In this subject special importance is attached to preparation in geography.

*Ancient* (counting one unit).

a Greek History, through the Roman Conquest; as much as is contained in Myer's, Bottsford's, or West's History of Greece.

b. Roman History; as much as is contained in Allen's, Bottsford's, or West's History of the Roman People.

*Mediæval and Modern European History* (counting one unit). As much as is contained in Myer's History of Mediæval and Modern Europe.

*English History* (counting one unit). As much as is contained in Larned's or Cheyney's History of England.

*American History with the Elements of Civil Government* (counting one unit). As much as is contained in Fiske's History of the United States, and Fiske's Civil Government.

### MATHEMATICS.

*Elementary Algebra* (counting one unit).

#### i. Algebra to Quadratics:

The four fundamental operations for rational algebraic expressions, factoring, highest common factor, lowest common multiple, complex fractions, the solution of equations of the first degree containing one or more unknown quantities, radicals, including the extraction of the square root of polynomials and numbers, and fractional and negative exponents.

#### ii. Quadratics, etc.:

Quadratic equations and equations containing one or more unknown quantities that can be solved by the methods of quadratic equations, problems depending upon such equations, ratio and proportion, and the binomial theorem for positive integral exponents.

*Advanced Algebra* (counting one-half unit).

#### i. Progressions, etc.:

The progressions, the elementary treatment of permutations and combinations, and the use of four and five place tables and logarithms.

#### ii. Series, etc.:

Undetermined coefficients, the elementary treatment of infinite series, the binomial theorem for fractional and negative exponents, and the theory of logarithms.

#### iii. Theory of equations:

Determinants and the elements of the theory of equations, including Horner's method for solving numerical equations.

*Plane Geometry* (counting one unit).

General text propositions, including the solution of simple original exercises and numerical problems.



*Solid Geometry* (counting one-half unit).

Properties of straight lines and planes, of dihedral and polyhedral angles, of projections, of polyhedrons, including prisms, pyramids, and the regular solids; of cylinders, cones, and spheres, of spherical triangles and the measurement of surfaces and solids.

*Plane Trigonometry* (counting one-half unit).

The definitions and relations of the six trigonometrical functions as ratios, proof of important formulas, theory of logarithms and use of tables, solution of right and oblique plane triangles.

## PHYSICS.

(Counting one unit.)

It is recommended that the candidate's preparation should include:

- a. Individual laboratory work, comprising at least thirty-five exercises well distributed over the subjects of physics.
- b. Instruction by lecture-table demonstrations.
- c. The study of at least one standard text-book, supplemented by the use of many and varied numerical problems. The metric system should be familiar to the student.

The laboratory note book must be submitted for inspection, whether the candidate is admitted on certificate or by examination.

## CHEMISTRY.

(Counting one unit.)

The candidate's preparation in chemistry should include:

- a. Individual laboratory work, comprising at least forty experiments of a character analogous to those set forth by the College Entrance Examination Board.

On application for admission to this University, every candidate seeking credit in chemistry must present an indexed note book in which he has recorded the steps and the results of his laboratory exercises, bearing an endorsement of the teacher who directed the student, written in ink on the inside of the cover.

- b. Instruction by lecture-table demonstrations to be used in instructing the student as to methods of manipulation and as a basis for questioning him upon the general principles involved in his laboratory experiments.

- c. The study of at least one modern text-book, to the end that the student may gain a comprehensive and connected view of the most important facts and laws of elementary chemistry.

*Requirements.* The ground to be covered should include the following: The chief physical and chemical characteristics, the isolation and

the recognition of the following elements and the preparation and study of their principal compounds: *Oxygen, hydrogen, carbon, nitrogen, chlorine, bromine, iodine, fluorine, sulphur*, phosphorus, silicon, potassium, *sodium*, calcium, magnesium, *zinc*, copper, mercury, silver, aluminium, *lead*, tin, *iron*, manganese, chromium.

The more detailed study should be confined to the italicized *elements* (as such) and to a restricted list of compounds, such as water, hydrochloric acid, carbon monoxide, carbon dioxide, oxides of nitrogen, nitric acid, ammonia, sulphur dioxide, sulphuric acid, hydrogen sulphide, sodium hydroxide, ammonium hydroxide.

Attention should be given to the atmosphere (constitution and relation to animal and vegetable life) flame, acids, bases, salts, oxidation and reduction, crystallization, combining proportions by weight and volume, calculations founded on these and on Boyle's and Charles' laws, symbols, formulas, equations and nomenclature, atomic theory, atomic weights, nascent state, natural groupings of the elements solution (solvents and solubility of gases, liquids, and solids), strength of acids and bases, conservation and dissipation of energy, chemical energy and electrolysis, and of valence, electrolytic dissociation, osmosis, mass action in a very elementary way. Chemical terms should be clearly understood, and the student should be able to illustrate and apply the ideas that they embody. The theoretical topics are not intended to form separate subjects of study, but to be taught only so far as is necessary for the correlation and explanation of the experimental facts. The facts should be given as examples from various classes and not as isolated things.

#### BOTANY.

(Counting one unit.)

Candidates must have had at least one year's full work in botany, comprising the general principles of morphology, physiology, and ecology, as well as the natural history of plant groups and classification. Bergen's Foundations of Botany and Atkinson's Elementary Botany indicate the general scope of the work required.

#### ZOÖLOGY.

(Counting one unit.)

In general, zoölogy is not recommended as an entrance subject unless the subject has been preceded or accompanied by that of physics and chemistry, which form the most desirable groundwork for collegiate courses in biology. The entrance examination in zoölogy is designed to test, first, the candidate's practical acquaintance with the natural history, structure, and relationships of some of the leading types of animals, and, second, his knowledge of the more essential facts of physiology.



*Practical Zoölogy.* A practical examination of at least ten common animal types, and the presentation by the candidate of a laboratory note book, certified by the teacher, as evidence of a laboratory course actually performed. Examples of the types suggested are the frog, fish, mollusk, insects, crustaceans, annelid, starfish, hydroid (hydra), and protozoan. In the examination less weight is laid on a knowledge of anatomical minutiae than on the ability to recognize the specimen and its allies, to indicate its relationship, and to point out the leading features of its life history, organization, and physiology.

*Elementary Physiology.* The nature of foods and their history in the body; the essential facts of digestion, absorption, circulation, secretion, excretion and respiration; the motor, nervous, and sensory functions, and the structure of the various organs by which these operations are performed. Martin's *Human Body* (briefer course) forms a suitable basis for this work, but teachers are recommended as far as possible to correlate the physiology of man and the higher animals with that of the lower forms studied in the course of practical zoölogy.

#### PHYSIOGRAPHY.

(Counting one unit.)

The equivalent of Davis' *Physical Geography* is required, together with an approved laboratory and field course of at least forty exercises actually performed by the candidate.

The candidate will be required to present at the time of his examination the original note book in which he recorded, with dates, the steps and results of his laboratory exercises. This book, which should contain an index of subjects, must bear the endorsement of the teacher, certifying that it is a true record of the candidate's work.

#### POLITICAL ECONOMY.

(Counting one unit or two units.)

A course in Political Economy based on the contents of Ely and Wicker's text-book, or upon a similar text, will count to the extent of one unit; while a course based on Bullock's *Introduction to the Study of Economics* or a work of similar scope may be counted to the extent of two units.

#### DRAWING.

(Counting one unit.)

The candidate's preparation in drawing should include simple geometrical planes and solid figures and simple pieces of machinery, with a fair knowledge of the rules of perspective and light and shade as ap-

plied in freehand sketching. The candidate should be able to reproduce from a flat copy with enlargement or reduction of size.

For courses in architecture, the preparation should include, in addition to the above, the drawing of simple pieces of architectural ornament (a Greek anthemium, a design of iron scrollwork, etc.).

For courses in engineering the preparation should include the copying of machinery details.

For courses in general science or in science for teachers, the preparation should include the copying of still life and simple plant forms.

### MANUAL TRAINING SCHOOL SUBJECTS.

#### SHOPWORK.

(Counting two units.)

Candidates who have been trained in manual-training schools or in commercial shops in the use of tools and in the ordinary processes employed in the working of wood or metal may receive admission credits for such work. They should submit letters from their teachers or employers, stating the character of the work in which they have been trained and the time given to it. The amount of credit will vary according to circumstances, but it will not exceed two units.

#### DOMESTIC SCIENCE AND DOMESTIC ART.

(Counting two units.)

Domestic Science and Domestic Art, studied in manual-training courses and duly certified, may be credited as College entrance subjects to the extent of two units.

### BUSINESS HIGH SCHOOL SUBJECTS.

Commercial subjects studied in the courses of business high schools or schools of similar grade, and duly certified may be credited as College entrance subjects as follows:

Accounting and Finance. (Counting one unit.)

Advanced Bookkeeping and Industrial Problems. (Counting two units.)

Business Organization. (Counting one unit.)

Commercial Law. (Counting one unit.)

Commercial History and Government. (Counting one unit.)

### ADMISSION TO ADVANCED STANDING.

Candidates for admission to advanced classes in any department are examined in all indispensable preliminary studies.



Due credit is given for properly certified courses of study pursued in other colleges and universities.

#### ADMISSION TO SPECIAL COURSES.

All the courses of instruction are open to students of suitable age and attainments who wish, without reference to any degree, to pursue special studies. Candidates must show that they are familiar with the subjects preliminary to the studies which they wish to pursue.

#### REQUIREMENTS FOR DEGREES.

The undergraduate degrees offered by the College of Arts and Sciences are Bachelor of Arts and Bachelor of Science in Chemistry. To be recommended for either of these degrees, the student must be registered for at least one academic year, must satisfy the admission requirements, and must complete at least sixty "hours" of undergraduate courses.

An "hour" of credit is one hour of recitation or lecture work a week or one laboratory period a week for one academic year. Except in the last year of the course no student taking less than six hours of work will be registered as a regular student. But no time limit for the course is prescribed and the degree is given when the total of prescribed and elective courses is completed.

One grade of special distinction is recognized in awarding the bachelor's degree. It is shown by inserting the words "With Distinction" on the diploma after the name of the degree. It is awarded under the following conditions:

"That the names of all students who have received a mark of at least B (90 per cent) on courses representing at least sixty (60 per cent) of all hours taken by them be submitted by the Dean to the Faculty of the Department in which the students shall be studying for a degree, after the completion of all final examinations in such students' final year of study for their degree;

"That the faculty, after separate consideration of each individual case, shall, if it see fit, recommend the awarding of the degree 'With Distinction' to students who shall have fulfilled the conditions above specified."

#### REQUIREMENTS FOR THE DEGREE OF BACHELOR OF ARTS.

To be recommended for the degree of Bachelor of Arts, the student must complete courses of study including a group of prescribed subjects, and aggregating at least sixty "hours."

There are six groups of prescribed subjects for the first two years of the college course. Every candidate for the degree of Bachelor of Arts elects one of these groups of prescribed subjects, and thereafter he is not permitted to change to another group except on condition that he fulfill the requirements of the group to which he changes.

The studies of the last two years of the course in the College of Arts and Sciences are elective, subject only to such administrative supervision as will insure the general consistency and the liberal character of the courses selected.

The scope of the six groups of prescribed subjects is a provision alike for the diversity in the subjects of the secondary school curriculum leading to a college course, and the needs of the various graduate and professional courses of study in the University for which the college course is a preparation.

Group I emphasizes Latin and Greek studies, and it would naturally be taken by students whose preparatory work has included four years of Latin. Group II emphasizes the Modern Languages, affording to students whose preparation has not included Latin, the humanistic influences of the literatures of the Modern Languages. Group III emphasizes Mathematics and the Natural Sciences, and would naturally be selected by the student whose college preparation has been scientific rather than literary. Group IV consists of such studies as would lead to the Teachers College, including important general culture courses and a considerable number of electives to be chosen from the subjects that the student expects to teach. Group V consists of such studies as would constitute needed preparation for the Department of Law or for the College of the Political Sciences. Group VI consists of the subjects that should be taken by those intending to enter the Department of Medicine. The six groups are as follows:

(NOTE: Whenever in the following groups French or German is taken, if it is elementary, the same language shall be continued the succeeding year.)

## GROUP I.

	Hours.
English .....	6
History .....	3
Languages <sup>1</sup> .....	9
Latin .....	6
Mathematics .....	3
Philosophy .....	3
	—
	30

<sup>1</sup> To be elected from Greek, French, German.



## GROUP II.

	Hours.
English .....	6
French <sup>a</sup> .....	3
German .....	6
History .....	6
Mathematics or Science .....	3
Philosophy or Psychology.....	3
Romance Language <sup>a</sup> .....	3
	—
	30

## GROUP III.

	Hours.
English .....	3
History .....	3
Mathematics .....	6
Modern Languages .....	6
Psychology or Philosophy.....	3
Science .....	5
Electives .....	4
	—
	30

## GROUP IV.

	Hours.
English .....	3
French, German, Latin or Greek.....	3
History .....	3
Mathematics or Science.....	3
Psychology .....	3
Philosophy, Economics or History.....	2 or 3
Science or Languages.....	5 or 6
	—
	22 or 24

The remaining hours are elective from the subjects named with a maximum limitation of 10 units in any one subject.

<sup>a</sup> French shall be taken the first year; if this is elementary French the language shall be continued the second year; if not, there may be election from French or Spanish or Italian.

## GROUP V.

	Hours.
Economics .....	3
English .....	6
History .....	7
Mathematics .....	3
Modern Languages or Latin.....	6
Science .....	3
Electives .....	3
	—
	31

## GROUP VI.

	Hours.
English .....	3
German .....	3
History .....	3
Mathematics .....	3
Psychology .....	3
Sciences:	
Chemistry, 1, 3, 23.....	7
Physics, 1, 2.....	5
Biology .....	5
	—
	32

REQUIREMENTS FOR THE DEGREE OF BACHELOR  
OF SCIENCE IN CHEMISTRY.

*Freshman Year.*

	Hours.		Hours.
Chemistry, 1, 2.....	5	French or German.....	3
English, 1 or 2.....	3	Graphics, 1 .....	2
Mathematics, 3, 5, 7, or 6, 8, 10.	3		

*Sophomore Year.*

Chemistry, 3, 20..... 5	Mathematics, 9, 11, or 12, 14.. 3
French or German .....	3
	Physics, 1, 2..... 5

*Junior Year.*

Architecture, 1 .....	1	Graphics, 2 .....	2
Chemistry, 4, 21, 23.....	6	Geology, 1 .....	2
French or German.....	3		

*Senior Year.*

Chemistry, 6, 24, 25, 27.....	11	Geology, 2 .....	2
Economics or History.....	2	Electives .....	2



## COMBINED COURSES.

The regular courses in the College of Arts and Sciences are so correlated with courses in the professional departments that the degree of Bachelor of Arts and the professional degree in Law may be obtained in six years, and in Medicine in seven years.

## SCHEDULE OF COURSES IN THE REQUIRED SUBJECTS FOR THE FIRST TWO YEARS.

	MON.	TUES.	WED.	THUR.	FRI.	SAT.
9	Math. 3, 5, 7	Phil. 1	Math. 3, 5, 7	Phil. 1	Math. 3, 5, 7	Phil. 1
10	Eng. 4 Fr. 1 Math. 9, 11 Psychol. 1	Eng. 1 Physics 2 Span. 1	Eng. 4 Fr. 1 Math. 9, 11 Psychol. 1	Eng. 1 Physics 2 Span. 1	Eng. 4 Fr. 1 Math. 9, 11 Psychol. 1	Eng. 1 Span. 1
11	Fr. 3 Ger. 3	Ger. 1 Physics 2 Hist. 3	Fr. 3 Ger. 3	Ger. 1 Physics 2 Hist. 3	Fr. 3 Ger. 3	Ger. 1 Hist. 3
1:30	Econ. 1 Graphics 1 Latin 2 Physics 3	Biol. Lab. Chem. 2	Econ. 1 Graphics 1 Latin 2 Physics 3	Biol. Lab. Chem. 2	Econ. 1 Latin 2 Physics 3	
2:30	Graphics 1 Greek 1 Hist. 1	Biol. Lab. Chem. 2	Graphics 1 Greek 1 Hist. 1	Biol. Lab. Chem. 2	Greek 1 Hist. 1	
3:30	Graphics 1 Hist. 2 Latin 1	Biol. Lab. Chem. 2	Graphics 1 Hist. 2 Latin 1	Biol. Lab. Chem. 2	Hist. 2 Latin 1	
4:50	Econ. 2 Eng. 2 Math. 4 Physics 1	Biol. 1 Chem. 1 Eng. 3 French 4 German 2 Math. 6, 8, 10	Econ. 2 Eng. 2 Math. 4 Physics 1	Biol. 1 Chem. 1 Eng. 3 French 4 German 2 Math. 6, 8, 10	Econ. 2 Eng. 2 Physics 1	Biol. 1 Chem. 1 Eng. 3 French 4 German 2 Math. 6, 8, 10
5:40	Geology 2 Hist. 5 Math. 12, 14	French 2 Geology 1 German 4 Hist. 4 Math. 2	Hist. 5 Math. 12, 14	French 2 Geology 1 German 4 Hist. 4 Math. 2	Geology 2 Hist. 5 Math. 12, 14	French 2 German 4

## PRIZES.

Only candidates for degrees may compete for these prizes.

STAUGHTON AND ELTON PRIZES.—The Staughton Prize, for excellence in the Latin Language and Literature, and the Elton Prize, for excel-

lence in the Greek Language and Literature, founded by the Rev. Romeo Elton, D.D., of Exeter, England, consist of two gold medals, annually awarded to the best scholar in each of these languages.

**RUGGLES PRIZES.**—The Ruggles Prizes, for excellence in Mathematics, founded by Professor William Ruggles, LL.D., consist of two gold medals, annually awarded upon examination to the best two scholars in Mathematics.

**MUNROE PRIZE.**—Professor Munroe offers a gold medal to that student from any Washington high school or the Manual Training School who shall attain the highest mark in Chemistry among those passing the entrance examinations, and shall remain in regular attendance for one year.

**CLASS OF '96 JAMES MACBRIDE STERRETT, JR., MEMORIAL MEDAL.**—This prize is annually awarded to that student taking Course 1 in Physics who obtains the highest average in a special examination on a given subject and in the writing of an essay on an assigned topic.

**DAVIS PRIZES.**—The Davis Prizes, for excellence in Elocution, founded by the Hon. Isaac Davis, LL.D., of Massachusetts, consist of three gold medals, annually awarded to the successful competitors in a public contest. Only members of the Senior Class are eligible to compete for these prizes.

**DAUGHTERS OF THE AMERICAN REVOLUTION PRIZES.**—These prizes, founded by the Daughters of the American Revolution of the District of Columbia, consist of two gold medals, awarded annually to the two students in the graduating class who, having maintained a high standing in the regular courses in Mediæval, Modern European, English, and American History during three years, shall produce the best essays upon an assigned topic of American history.

**THE THOMAS F. WALSH PRIZE.**—This prize established by Thomas F. Walsh, Esq., of Colorado, and based upon the income of one thousand dollars, consists of a gold medal awarded annually to that student of the graduating class, who having maintained a high standard in the regular classes of Mediæval, Modern European, English and American History, shall produce the best essay upon a designated period of the History of Ireland.

**E. K. CUTTER PRIZE.**—The E. K. Cutter Prize in English was founded by the late Marion Kendall Cutter. The endowment is a fund of one thousand dollars, the income of which is given annually as a prize "for excellence in the study of English." The prize will be awarded to that member of the graduating class whose record in English, combined with general excellence, shows most marked aptitude and attainment in English studies.

**WILLIE E. FITCH PRIZE.**—The Willie E. Fitch Prize, for highest excellence in all branches of Chemistry, founded by James E. Fitch, Esq.,



in memory of his son, consists of fifty dollars, which is awarded annually for the best examinations in Chemistry.

**OLD AND MIDDLE ENGLISH PRIZE.**—This is a prize of twenty-five dollars awarded to the student showing the greatest proficiency in English, 28.

**THE GARDINER G. HUBBARD MEMORIAL PRIZE.**—This is a prize in American History established by Mrs. Gertrude M. Hubbard, in memory of her husband, the late Gardiner G. Hubbard. The endowment is a fund of one thousand dollars, the income from which is to be given annually to that student of the graduating class, who has during four years maintained a high standing in the classes of American History, and who has produced the best essays upon subjects based upon a study of some assigned period of American history.

**THE FUNK AND WAGNALLS STANDARD DICTIONARY PRIZE.**—The Funk and Wagnalls Company offers an unabridged morocco-bound copy of the latest edition of the Standard Dictionary of the English Language, to that member of the Freshman Class who passes the best examination in English Rhetoric. A special examination for this prize is given in May. The examination covers the work in English Rhetoric for the entire year.

**COLONIAL HISTORY PRIZE.**—The Society of the Colonial Dames of America, Chapter III, offers annually a gold medal for excellence in American Colonial History. This prize will be awarded by the Professor of History for general excellence in this subject as shown by class standing, by special essays, and by such other tests as shall be prescribed.

#### PRIZE AWARDS 1907-08.

**STAUGHTON PRIZE.**.....Catharine Agatha McAvoy  
**ELTON PRIZE** .....Catharine Agatha McAvoy  
**RUGGLES PRIZE** .....Bertha Birtwell  
**MUNKOE PRIZE.**.....Prescott Stearns Tucker

#### DAVIS PRIZES:

First Prize .....Justin Frank Seiler  
 Second Prize .....William Cabell Van Vleck  
 Third Prize .....Edward Percy Gates

#### DAUGHTERS OF THE AMERICAN REVOLUTION PRIZES:

Edward Percy Gates  
 Pearl Ketcham Merritt  
**THOMAS F. WALSH PRIZE.**.....William Cabell Van Vleck  
 Honorable mention .....Pearl Ketcham Merritt  
**E. K. CUTTER PRIZE.**.....Lulu Elizabeth Conner  
**WILLIE E. FITCH PRIZE.**.....Sidney Forsythe Sherwood

## FRENCH COMPOSITION PRIZES:

First Prize .....	John Howard Dellinger
Second Prize .....	Ernst Otto Schreiber, Jr.
GARDINER G. HUBBARD MEMORIAL PRIZE.....	William Cabell Van Vleck
Honorable mention .....	Edward Percy Gates

## PRIZE AWARDS 1908-09.

STAUGHTON PRIZE.....	Vera Elsie Adams
ELTON PRIZE.....	Vera Elsie Adams
MUNROE PRIZE.....	Lenore Heald
CLASS OF '06 JAMES MACBRIDE STERRETT, JR., MEMORIAL PRIZE .....	Anna Melrose Browning

## DAVIS PRIZES:

First Prize .....	James William Berry
Second Prize .....	Joseph Ryland Curl
Third Prize.....	Tench Tilghman Marye

## DAUGHTERS OF THE AMERICAN REVOLUTION PRIZES:

	May Thacher Cooke
	Charlotte Raynsford Farrington
THOMAS F. WALSH PRIZE.....	Howard G. England
E. K. CUTTER PRIZE.....	James William Berry
WILLIE E. FITCH PRIZE.....	Aubrey Vail Fuller
GARDINER G. HUBBARD MEMORIAL PRIZE.....	Charlotte Raynsford Farrington
FUNK AND WAGNALLS STANDARD DICTIONARY PRIZE:	
	Jeanette Geschickter

COLONIAL HISTORY PRIZE OF THE SOCIETY OF THE COLONIAL DAMES OF AMERICA.....	Anne Lee Ettenger
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## SCHOLARSHIPS.

Applications for scholarships should be filed with the Dean not later than September fifteenth. All scholarships except the Kendall Scholarship and the University Scholarships are awarded for one year only, but they may be renewed. Any student holding a scholarship who fails to obtain a general average of 85 per cent on the work of any term or whose deportment is unsatisfactory will be reported to the President's Council, and in the absence of extenuating circumstances the scholarship will be revoked.

KENDALL SCHOLARSHIP.—The Kendall Scholarship, founded by the late Hon. Amos Kendall, is annually conferred on that student from any of the Washington High Schools or from the Manual Training School who attains the highest average in the June entrance examina-



tions. This scholarship continues throughout the undergraduate course, and the student holding it pays only the matriculation, library, laboratory and graduation fees.

**UNIVERSITY SCHOLARSHIPS.**—The University offers also six scholarships, each continuing throughout the undergraduate course, to be awarded annually to members of the graduating classes of the high schools of Washington and of the Manual Training School. The scholarships are divided, so far as the general averages will permit, among the several schools in proportion to the number of students in attendance upon each. Three scholarships are offered to young men and three to young women. No scholarship is awarded to a candidate whose examination average is below 80 per cent. Candidates for these scholarships take the June entrance examinations for the undergraduate course leading to the degree of Bachelor of Arts or the degree of Bachelor of Science, as they shall elect, and on the results of these examinations the scholarships are assigned. Holders of these scholarships are expected to pursue a regular course in the Department of Arts and Sciences leading to a degree. Such students pay only the matriculation, library, laboratory, and graduation fees.

**DAVIS SCHOLARSHIP.**—This is the income of a fund of one thousand dollars given to the University in October, 1869, by Hon. Isaac Davis, of Massachusetts.

**MARY LOWELL STONE SCHOLARSHIP.**—This scholarship was founded by a woman in memory of a woman student of science. It consists of a fund of two thousand dollars, the income from which is to be paid to needy women students of science in the University; it will be awarded by the President's Council.

**MARIA M. CARTER SCHOLARSHIP.**—This is the income of a fund of one thousand dollars given to the University in 1871 by Mrs. Maria M. Carter.

**FARNHAM SCHOLARSHIP.**—This is the income of a fund of one thousand dollars given to the University in 1871 by Mrs. Robert Farnham.

**MINISTERIAL SCHOLARSHIPS.**—Students in regular courses preparing for the Christian Ministry, and not yet ordained, are exempt from tuition charges. Such students pay the matriculation, library, laboratory, and graduation fees.

Students in regular courses who are children of clergymen financially dependent wholly or in part upon their parents are exempt from one-half of all tuition charges. Such students pay the matriculation, library, laboratory, and graduation fees.

#### DAVIS PRIZE SPEAKING.

The Davis Prize Speaking is held in University Hall on the Tuesday after the Easter holidays. The Davis Prizes were founded by Hon.

Isaac Davis, of Massachusetts, in 1847. The original endowment was five hundred dollars, "proceeds of which will afford three premiums, in cash or gold medals, of the value of \$5, of \$10, and of \$15 annually—these premiums or prizes to be distributed annually to such members of the Senior Class as shall have made the greatest progress in elocution since their connection with the College."

The award of these three prizes is determined by a public speaking contest, in which the participants deliver original orations. Senior students wishing to enter the competition should report to the Dean of the College not later than five weeks before the contest, and submit their orations not later than three weeks before the contest. The prizes are awarded by a committee consisting of three members, selected by the Executive Faculty of the College.

#### ENOSINIAN SOCIETY.

The Enosinian Society, a literary association formed by the students of Columbian College, to which any University student is eligible, meets regularly for the purpose of improvement in debate and composition.

This society had its beginning March 6, 1822, during the first session of Columbian College, when a number of students held a meeting "for the purpose of establishing a debating society." Two Enosinian prizes are given annually and are publicly presented at the Commencement. They are the following:

**DEBATERS' PRIZE.**—A gold medal given by the Society for proficiency in debate. This prize was awarded in 1908 to Edward Percy Gates. Honorable mention to William C. Van Vleck.

**GORE PRIZE IN PARLIAMENTARY LAW.**—A gold medal given by Prof. James Howard Gore for proficiency in parliamentary law. This prize was awarded in 1908 to William C. Van Vleck.

#### WOMAN'S BUILDING.

A Woman's Building was opened by the University in September, 1907. This is situated near the University Building, at 1538 I street. The lower floors contain lecture rooms, recitation, committee, and dining-rooms. The upper floors are a college dormitory for women, and college girls may obtain board and rooms at reasonable rates. The Woman's Building is the social centre for the young women of the College.

#### DEAN OF WOMEN.

The Dean of Women is an assistant to the Deans in the Department of Arts and Sciences, having general oversight of the women students. She will assist these students to find desirable boarding places and asso-



ciations in the city. She will advise them in University matters excepting those pertaining to the educational and general administrative functions of the Deans. She may be consulted in her office in the University Building at all times and she will exercise supervision over the social activities of the women students.

#### LUTHER RICE MISSION STUDIES.

Luther Rice founded Columbian College in 1821 with a missionary motive and a purpose to "diffuse knowledge both literary and religious through these United States." In remembrance of this motive and in coöperation with the various interdenominational missionary movements, the College instituted during the winter of 1907-08 four University Extension Courses in the study of Christian missions. These courses were planned to help leaders of classes in the churches and students of missions. They are all without fee and are open to men and women.

The following courses were given in 1908-09:

"The Why and How of Foreign Missions," conducted by Professor SMITH.

"The Moslem World," conducted by Assistant Professor MANNING.

"The Nearer and Farther East," conducted by Miss ELLIS.

"The Frontier," conducted by Professor WILBUR.

#### THE CHRISTIAN ASSOCIATION.

The student movement in Association work is represented by the Young Men's Christian Association of The George Washington University, which was organized in the fall of 1905. The Association plans and conducts religious work among the men of the University. The Association calendar includes Bible study clubs, a weekly chapel service, and occasional men's meetings.

Similar lines of religious work are conducted among the women students by the Young Women's Christian Association of Columbian College.

#### THE COLLEGE CHAPEL.

The College Chapel is held in the University Building on Monday, Tuesday, Wednesday, and Thursday, at 12 o'clock, throughout the academic year. These chapel services are conducted by the Faculty. On Friday at 12 o'clock there are two services, conducted respectively by the Young Men's Christian Association and the Young Women's Christian Association.

The Dean of the College will confer with students as they may desire on questions concerning their welfare and will coöperate with them in all ways to make the college life one of personal helpfulness.

## COLLEGE OF ENGINEERING AND MECHANIC ARTS.

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The session of 1909-1910 begins Wednesday, September 29, 1909.

Two houses, 1528 and 1530 I street, have been remodeled for use of the College of Engineering, and contain class-rooms, drawing-rooms, library and reading-room, cement laboratory and offices of members of the Faculty.

The Chemical, Physical, Electrical and Mechanical laboratories are in the main building of the University, corner of Fifteenth and H streets, N. W.

The office of the Dean is at 1528 I street.

### ADMISSION.

Every applicant for admission is required to present a testimonial of good character, and also a certificate of standing and regular dismissal from the school or college which he has attended or from the tutor with whom he has studied.

Candidates for admission to the Freshman Class may present certificates of admission or take an examination in the required subjects. Certificates, in lieu of any or all examinations, will be accepted from schools whose work is attested by well-prepared students admitted to the University in previous years, and from schools desiring coöperation with the University, that present evidence of affording adequate preparation in the required subjects. The Secretary of the University will, on application, furnish certificate blanks to the principals of such accredited schools.

The certificate of the College Entrance Examination Board will be accepted in so far as the subjects specified meet the requirements for admission.

The certificate of the Washington high schools covering all the requirements for admission admits students without examination to the courses of the Freshman year.

The certificates of all schools accredited to the University will be accepted in so far as they meet the requirements for admission.

*The general requirement for admission is a four-year high school course, or its equivalent, consisting of five recitations per week in four or more topics.* The high school studies which may be presented in satisfaction of the requirements of admission are given on pp. 33-41 of this catalogue.



Candidates for admission to the Freshman Class in the College of Engineering are required to present fifteen units for admission, distributed as follows:

	Units.
English .....	3
French or German.....	4
Plane and Solid Geometry.....	1½
Elementary and Advanced Algebra.....	1½
Plane Trigonometry .....	½
Chemistry .....	1
Physics .....	1
Electives .....	2½
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	15

NOTE.—The modern language requirement may be satisfied by presenting four units in one language, or two units in French and two units in German. Students who present four units in one language will study the other language two years in College. Students who present two units in French and two units in German will study each language one year in College.

#### ADMISSION TO ADVANCED STANDING.

Candidates for admission to advanced classes in any department are examined in all indispensable preliminary studies.

Due credit is given for properly certified courses of study pursued in other colleges and universities.

#### ADMISSION TO SPECIAL COURSES.

All the courses of instruction are open to students of suitable age and attainments who wish, without reference to any degree, to pursue special studies. Candidates must show that they are familiar with the subjects preliminary to the studies which they wish to pursue.

#### COURSES FOR A DEGREE.

Three courses of study are offered:

- I. CIVIL ENGINEERING.
- II. ELECTRICAL ENGINEERING.
- III. MECHANICAL ENGINEERING.

These courses occupy four years each, and lead to the degree of Bachelor of Science in Civil Engineering, in Electrical Engineering, and in Mechanical Engineering, respectively. Graduate courses of one year under the Faculty of Graduate Studies of the George Washington

University are open to those who receive the above degrees, and lead, respectively, to the degrees of Civil Engineer, Electrical Engineer, and Mechanical Engineer.

The courses in engineering are planned to give the student a thorough understanding of the theory underlying engineering practice, and such a practical knowledge of the instruments and methods of his particular profession as will enable him to apply the theory properly. In all the courses a thorough training in mathematics, pure and applied, and in drawing and descriptive geometry is required as the basis of the analytical and graphical study of engineering topics. Much stress is laid on the work in the drawing-room and laboratory. The work is planned to give him a thorough knowledge of principles upon which he may build, and by which he may be able to solve the new problems he meets in practice.

The work of the first year is the same for all students. It is taken up partly with general studies which have both an educational and a cultural value, and partly with work in mathematics and drawing which lays the foundations for the subsequent courses. In each of the other years there are studies taken in common by all engineering students; these studies including courses in English, in French and German, in pure and applied mathematics, in drawing and descriptive geometry, in chemistry and in physics. The requirement in French and German is intended to give the student an accurate reading knowledge of these languages, with particular reference to scientific literature.

Beginning with the Sophomore year, the Civil Engineering student enters upon his technical studies, continuing at the same time a number of topics of a more general character, and in the Junior and Senior years the work becomes yet more specialized. He begins with a general course in surveying and follows this with courses in railroad and highway location and construction. Theoretical hydraulics and hydraulic engineering receive careful and detailed treatment and much stress is laid on sanitary work, both in its theory and applications. A preliminary course in engineering materials and simple constructions in the Sophomore year is followed in later years by extended courses in mechanics of materials, and in the theory and design of structures in wood, steel, and masonry, in which are applied the knowledge gained in the courses in mechanics and graphic statics.

The courses for Electrical and Mechanical Engineering students are the same during the Sophomore year, and beside the general studies required of all engineering students include courses in advanced drawing and design and in kinematics of machinery. Shopwork begins in this year and continues until the end of the course for both classes of students, although the Electrical students give less time to it than do



the Mechanical students. The purpose of the work is not primarily to give manual skill, but to give such an understanding of tools and processes as will be of assistance in designing and in superintending. In the Junior year Electrical and Mechanical students take in common courses in steam engineering and on boilers and power plants.

The Electrical students begin their special work in electricity in the Junior year. Theoretical electricity is first studied, and is followed by engineering electricity, and by courses on direct current machinery. In the laboratory, experimental work in exact measurements is followed by the study of the dynamo. In the Senior year alternating current machinery is studied, both theoretically and practically; and courses on the applications of electricity and on light and power distribution are taken. In the drawing-room are studied related problems in design. Many hours are given to work in the electrical and general engineering laboratories.

The Mechanical Engineering students, in addition to the courses which they take in common with the electrical students, have courses in engine design, including steam and gas engines; in hydraulics and hydraulic machinery; and a course in electrical engineering, considering electrical machinery from the standpoint of one who is to use it rather than to design it.

The engineering courses are partly lecture and partly laboratory and drawing-room courses, the plan being to give the theory in the classroom, to illustrate the theory in the laboratory, and to have the student apply the theory, from given data, in the drawing-room.

#### REQUIREMENTS FOR A DEGREE.

The arrangement of the topics in each of the regular courses for a degree is shown below. The numbers following the names of subjects refer to the courses as given in the list of University Subjects on pages 76-117, to which reference should be made for more complete description.

#### COMMON TO ALL COURSES.

##### *Freshman Year.*

Chemistry, 1, 7.

General Chemistry and Qualitative Analysis.

English, 1 or 2.

Rhetoric.

French or German.

Graphics, 1.

Mechanical and Freehand Drawing.

Mathematics, 9, 11 or 12, 14.

Trigonometry; Analytic Geometry.

## CIVIL ENGINEERING COURSE.

*Sophomore Year.*

- Civil Engineering, 1, 4  
    Surveying; Materials of Construction.  
French or German.  
Graphics, 8, 10.  
    Descriptive Geometry; Topographic Drawing.  
Mathematics, 20 or 21.  
    Calculus.  
Physics, 1, 2.  
    General Physics; Laboratory Physics.

*Junior Year.*

- Applied Mathematics, 20, 21, 22.  
    Mechanics; Hydraulics; Mechanics of Materials.  
Civil Engineering, 2, 3, 8, 22.  
    Railroad Engineering; Highway Engineering; Prac-  
    tical Astronomy; Theory of Structures.  
Electrical Engineering, 6.  
    Industrial Engineering.  
Geology, 2.

*Senior Year.*

- Chemistry, 6.  
    Metallurgy.  
Civil Engineering, 20, 21, 23, 24.  
    Masonry; Hydraulic Engineering; Theory of Struc-  
    tures; Sanitary Engineering.  
Contracts and Business Law.  
Mechanical Engineering, 12.  
    Steam Engineering.

## ELECTRICAL ENGINEERING COURSE.

*Sophomore Year.*

- French or German.  
Graphics, 2, 8.  
    Advanced Mechanical Drawing; Descriptive Geometry.  
Mathematics, 20 or 21.  
    Calculus.  
Mechanical Engineering, 1, 4.  
    Mechanism; Shopwork.  
Physics, 1, 2.  
    General Physics; Laboratory Physics.



*Junior Year.*

Applied Mathematics, 20, 21, 22.

Mechanics; Hydraulics; Mechanics of Materials.

Chemistry, 6.

Metallurgy.

Electrical Engineering, 1, 2, 3, 4, 5.

Elementary Electricity; Direct Current Machinery;

Electrical Engineering; Electrical Measurements;

Electrical Engineering Laboratory.

Mechanical Engineering, 5, 20.

Metal-work; Steam Engineering.

*Senior Year.*

Civil Engineering, 5, 6.

Surveying Instruments; Foundations.

Contracts and Business Law.

Electrical Engineering, 8, 21, 22, 23, 24, 26, 27.

Electrical Designs; Alternating Currents; Electrical Distri-

bution; Electrical Applications; Electrical Engineering

Laboratory; Electric Lighting; Electric Railways.

Mechanical Engineering, 10, 23.

Engineering Laboratory; Hydraulic Machinery.

## MECHANICAL ENGINEERING COURSE.

*Sophomore Year.*

French or German.

Graphics, 2, 8.

Advanced Mechanical Drawing; Descriptive Geometry.

Mathematics, 20 or 21.

Calculus.

Mechanical Engineering, 1, 4.

Mechanism; Shopwork.

Physics, 1, 2.

General Physics; Laboratory Physics.

*Junior Year.*

Applied Mathematics, 20, 21, 22.

Mechanics; Hydraulics; Mechanics of Materials.

Civil Engineering, 22.

Theory of Structures.

Mechanical Engineering, 5, 6, 9, 20.

Metal-work; Engineering Drawing; Engineering Lab-  
oratory; Steam Engineering.

*Senior Year.*

Chemistry, 6.

Metallurgy.

Civil Engineering, 5, 6.

Surveying Instruments; Foundations.

Contracts and Business Law.

Electrical Engineering, 7.

Dynamos and Motors.

Mechanical Engineering, 7, 10, 22, 23, 25, 28.

Machine Design; Engineering Laboratory; Internal

Combustion Motors; Hydraulic Machinery; Com-

pression and Refrigeration Machinery; Industrial

Management.

**PRIZES.**

Only candidates for degrees may compete for these prizes.

**RUGGLES PRIZES.**—The Ruggles Prizes, for excellence in Mathematics, founded by Professor William Ruggles, LL.D., consist of two gold medals, annually awarded upon examination to the best two scholars in Mathematics.

**MUNROE PRIZE.**—Professor Munroe offers a gold medal to that student from any Washington high school or the Manual Training School who shall attain the highest mark in Chemistry among those passing the entrance examinations, and shall remain in regular attendance for one year.

**CLASS OF '96 JAMES MACBRIDE STERRETT, JR., MEMORIAL MEDAL.**—This prize is annually awarded to that student taking Course 1 in Physics who obtains the highest average in a special examination on a given subject and in the writing of an essay on an assigned topic.

**DAVIS PRIZES.**—The Davis Prizes, for excellence in Elocution, founded by the Hon. Isaac Davis, LL.D., of Massachusetts, consist of three gold medals, annually awarded to the successful competitors in a public contest. Members of the Senior Class are eligible to compete for these prizes.

**SCHMIDT PRIZES.**—Mr. Fred. A. Schmidt offers a prize to the student who attains the highest standing in Descriptive Geometry, Trigonometry, and Analytic Geometry.

**MUTH PRIZE.**—Geo. F. Muth & Co. offer a set of drawing instruments to the student taking Advanced Mechanical Drawing who makes the highest average record in that subject and in the previous year's Mechanical Drawing.



## PRIZE AWARDS, 1907-08.

CLASS OF '06 JAMES MACBRIDE STERRETT, JR., MEMORIAL PRIZE:

J. Ralph Fehr

THE FRED A. SCHMIDT PRIZE.....Irving Randolph Saum

## PRIZE AWARDS, 1908-09.

THE FRED A. SCHMIDT PRIZE.....Henry B. Myers

THE MUTH PRIZE.....William M. Leonard

## SCHOLARSHIPS.

Applications for scholarships should be filed with the Dean not later than September fifteenth. All scholarships except the Kendall Scholarship and the University Scholarship are awarded for one year only, but they may be renewed. Any student holding a scholarship who fails to obtain a general average of 85 per cent on the work of any term or whose deportment is unsatisfactory will be reported to the President's Council, and in the absence of extenuating circumstances the scholarships will be revoked.

The Kendall Scholarship and the University Scholarships are open to students in the College of Engineering. Detailed statements in regard to these scholarships are given on pages 49-50.

HENRY HARDING CARTER SCHOLARSHIPS.—These scholarships, founded by Mrs. Maria M. Carter in memory of her husband, Henry Harding Carter, consist of four scholarships of the annual value of fifty dollars each, and may be awarded to deserving students who are preparing for the civil engineering profession.

ADMIRAL POWELL SCHOLARSHIPS.—The Admiral Powell Scholarships were founded by the late Admiral Powell, U. S. Navy. The income from this endowment is for the "free education of such young men as may desire to take advantage of the said endowment by way of their preparation for entrance into the Naval Academy at Annapolis, Maryland or such as may fit them to become mates or masters in the Merchant Marine Service of the United States," and of "such apprentices as, having filled their time in the great steam manufactory establishments of the country, may apply for appointment from civil life in the Steam Engineer Department of the United States Navy." The number of scholarships awarded each year will be determined by the income from the endowment. Each scholarship will entitle the beneficiary to free tuition for one year. Such special courses of study are offered to each student as will give him the instruction needed to accomplish the purpose for which he is awarded the scholarship.

These scholarships are especially applicable to those who intend to come up for examination as warrant officers in the Engineer Depart-

ment of the Navy, or to those who desire to fit for responsible positions in the mercantile marine.

The subjects to be taken by a student will vary according to his preparation and according to the purpose for which he has been awarded the scholarship, but a year's work can be selected from the following topics:

	Hours.
Navigation and Nautical Astronomy.....	6
Algebra and Geometry.....	3
Trigonometry .....	1½
Mechanical and Machine Drawing.....	4
Meteorology .....	2
English .....	3
French .....	3
German .....	3
Spanish .....	3
International Law .....	1
Commercial Geography .....	1
Admiralty Law .....	½
Boilers and Power Plants.....	3
Measurement of Power.....	3
Dynamo theory .....	2
Dynamo testing .....	3



## COLLEGE OF THE POLITICAL SCIENCES.

### GENERAL STATEMENT.

The College of the Political Sciences offers systematic and scientific instruction in the various branches of the political sciences.

To undergraduate students it gives a broad, general education in the political sciences and in social, political, and economic history as a foundation for specialization in certain of the learned professions.

By means of its graduate courses, it gives a comprehensive and highly-specialized training in the political sciences, including government and administration, international law and diplomacy, economics, finance, and history, based upon the constant observation of facts at the capital of the nation and the critical appreciation and comparative study of political and social institutions.

This education is intended to give a training that will fit certain students for consular and diplomatic positions and for the public service of the United States, while imparting that general culture and equipment necessary for efficient citizenship and the intelligent grasp of public questions.

In Washington are collected the official records of the nation's history. Here are accumulated vast stores of information concerning the condition of the country and the problems confronting us as a people. As the capital of the nation, Washington furnishes the best, and in many instances the only, opportunity for studying the government in actual operation. Here is the National Congress, engaged in the work of practical legislation. Here sits the Supreme Court which gives to that legislation authoritative interpretation. Here are the great Executive Departments carrying on the business of government and working out the problems of administration. These together with the government of the District of Columbia are constant object lessons in political science. Here is the largest resident diplomatic body to be found anywhere in the world. Here are gathered representatives of the nation and of the press, creating a center of activity in all that appertains to the branches included within the scope of the College. Such an atmosphere for the student of the political sciences can be found nowhere else.

Among the additional advantages in these branches may be mentioned the Library of Congress, which contains 1,400,000 volumes and over 300,000 maps, manuscripts, etc., accessible to the students of the University; the Library of the Smithsonian Institution, enriched by its exchanges with all the countries of the civilized world; the Library of the State Department, containing more than 80,000 volumes, including nearly all the important publications relating to international law,

diplomacy, and political history; the Public Library of the District of Columbia, with 90,000 volumes; the United States Bureau of Education, rich in statistical material and foreign exchanges; the excellent working libraries of the Department of Commerce and Labor, the Bureau of Statistics, the Bureau of Trade Relations, the Bureau of American Republics, the Interstate Commerce Commission, the Census Bureau, and the Department of Agriculture.

Of these special facilities, as well as those which Washington enjoys as a center of general culture, the College of the Political Sciences is planned to take a thorough and systematic advantage. On the Faculty are not only men who are scholars and teachers, but also men whose successful experience in the public service and in the other branches they teach gives their instruction the greatest practical value.

#### ADMISSION.

The requirement for admission to the College of the Political Sciences is the completion of two years, or its equivalent (fifteen hours per week per year), of satisfactory undergraduate work in any college or university whose entrance requirement is a four-year high school course, or its equivalent, amounting to fifteen "units." (See requirements for admission to the College of Arts and Sciences.)

Students who have completed more than two years of work in other colleges or universities of approved rank and who have received credit for that work may be admitted to advanced standing, provided their work has been of such character as to be acceptable in lieu of courses in the College of the Political Sciences.

Students who wish to pursue work leading to a graduate degree must present an acceptable Bachelor of Arts degree, or its equivalent, granted by a college or university of approved standing.

The session 1909-10 begins September 29, 1909. The academic year is divided into two parts—the first half year, beginning September 29, and the second half year, beginning January 31. Since many courses commence with the beginning of the second half year, a student may usually enter the College at this time without being necessarily delayed in the completion of the work requisite for graduation. Students who enter the College at the opening of the second half year's work may be graduated at the annual Winter Convocation of the University on February 22.

#### ADMISSION TO SPECIAL COURSES.

All courses of instruction are open to persons of maturity and suitable attainments who wish to pursue special studies without reference to a degree. Such persons are designated as special students. Upon successfully passing the examinations in the courses pursued, such stu-



dents will receive certificates for work completed. But no one can be admitted to any course without satisfying the professor in charge that he has had previous training sufficient to carry on the work of the course with profit.

#### THE DEGREE OF BACHELOR OF ARTS.

The only undergraduate degree conferred by the University for work completed in the College of Political Sciences is the degree of Bachelor of Arts (A.B.) To be recommended for this degree the student (1) must have satisfied the entrance requirements, (2) must have been registered for at least one academic year, and (3) must have completed a total of sixty hours of class-room work (fifteen hours per week for four years). Thirty hours of this work may be taken in this College.

The Bachelor of Arts degree is granted by the University upon the recommendation of the Faculty of Undergraduate Studies. No student may receive the degree who has not been in residence at this University at least one academic year.

#### HIGHER DEGREES.

The higher degrees conferred by the University for work completed in the College of the Political Sciences are Master of Arts (A.M.), Master of Diplomacy (M.Dip.), and Doctor of Philosophy (Ph.D.). Candidates for any one of these degrees must possess a Bachelor of Arts degree, or its equivalent, granted by a college or university of acceptable rank.

Candidates for admission to courses for higher degrees must present the diplomas they hold, or certificates that they have received such diplomas, to the Secretary of the University, and obtain from him application blanks. When properly filled and signed, these applications are to be submitted to the Dean of the Faculty of Graduate Studies, together with catalogues of the institutions from which they hold their degrees and certificates of their course of study at such institutions. All such applications should be accompanied by testimonials as to character and scholarship.

Candidates for the degree of Master of Diplomacy (1) must possess a knowledge of two modern languages other than English, (2) must complete twenty-four hours (twelve hours per week for two years) of class-room work, and (3) must prepare a satisfactory dissertation showing original research and investigation. But applicants for this degree who, in the attainment of their Bachelor of Arts degree, have completed

the equivalent of twelve acceptable units in economics, political science, and public law may be credited with not more than twelve units toward the degree of Master of Diplomacy. Candidates for the Master of Diplomacy degree pursue their work under the general direction of the Dean of the College of Political Sciences. This degree is awarded by the University upon the recommendation of the Faculty of the College of Political Sciences.

For an outline of the requirements for the degree of Master of Arts and Doctor of Philosophy and for the regulations in regard to dissertations, the candidate is referred to page 26.

Students who become candidates for the Master of Arts or the Doctor of Philosophy degree pursue their work under the general direction of the Dean of the Faculty of Graduate Studies. These degrees are awarded by the University upon the recommendation of the Faculty of Graduate Studies. No student may receive any higher degree who has not been in residence in this University at least one academic year.

#### LIBRARY.

The library of the College of the Political Sciences contains several thousand volumes carefully selected with special reference to library work in connection with the courses of instruction offered. It affords a practical work-room for the use and convenience of students and is open during the day and evening. The main library of the University and the law library are in adjacent buildings. The Library of Congress, the Carnegie Library, and the Library of the Department of State are easily accessible for extended research work and special investigation.

#### COURSES OF STUDY.

The courses offered in this College are grouped in five sections: (1) Political Science, (2) International Law and Diplomacy, (3) Economics and Finance, (4) Commerce and Transportation, (5) History. The courses in each section are classified in two divisions: (1) for undergraduates and graduates, (2) for graduates. The first division includes those courses which, while primarily for undergraduates, may nevertheless be pursued with profit by graduate students who have not had equivalent courses in their undergraduate work. The second division embraces courses which are offered primarily for graduate students, although undergraduates specially fitted to pursue the work may occasionally be admitted to such courses with the consent of the Dean and of the professor in charge.



Courses in this College are open to students in Columbian College and the Department of Law with the consent of their respective Deans. Students in the College of the Political Sciences may, likewise, with the consent of the Dean of the College, elect courses in Columbian College and the Department of Law.

Lectures begin at 8.00 a. m. and close at 6.30 p. m.

## TEACHERS COLLEGE.

The session of 1909-10 begins Wednesday, September 29, 1909.

The Education Building, containing lecture and seminar rooms, the Psychological Laboratory, and the Department Library, is situated at 1534 I street, N. W.

The office of the dean is in this building.

### GENERAL STATEMENT.

The purpose of the Teachers College is to provide (a) collegiate training for teachers, (b) instruction in education as a department of science.

While research in the field of educational science, and the provision of courses which may be taken mainly for their culture value, are important features of the work of any university department of education, the principal aim of the Teachers College is the practical and professional one of training teachers. In this large field, the Teachers College will restrict itself for the present mainly to the preparation of teachers for the higher grades of instruction and administration. The many excellent normal schools and training colleges are preparing teachers for efficient service in the primary and grade schools; but the need of the broad and substantial training of a college course as a preparation for high school teaching, and for responsible administrative positions, is now very generally admitted. Up to the present time, it has too often happened that the college graduate who wishes to teach has been without any knowledge of the theory and practice of his vocation. The George Washington University, in common with many leading institutions, has endeavored to remedy this defect in the college training of the teacher by establishing a department for the systematic study of education in all its theoretical and practical aspects.

The aims of the Teachers College may, accordingly, be summarized as follows:

- (a) To promote the knowledge of educational science.
- (b) To fit students for the higher positions in the public school service.
- (c) To secure to teaching the rights and prerogatives of a profession.
- (d) To aid in raising the standards of educational practice, and so to increase the efficiency of public education.

### ORGANIZATION.

With a view to combining to the best advantage a general college education with adequate professional training for teaching, the work of the Teachers College rests upon a preparatory course of two years duration in the College of Arts and Sciences. The prescribed studies of this



course, given below, are stated as "Group IV" (see page 44) in the announcement of the curricula of the first and second years. The two years of professional study in the Teachers College consists of a minimum of ten units of required technical courses in education and twenty units of electives, the major part of which should be devoted to the subjects which the student wishes to teach.

Inasmuch as a large number of teachers in service are without college degrees, and a still larger number desire to supplement their professional training by taking special courses, the courses of instruction have been arranged to meet the needs both of undergraduate students and of teachers in service. The required courses constituting the prescribed work in education are given both in the morning and in the late afternoon hours, and are, therefore, easily accessible to both students and teachers from the schools. The hours are also convenient for persons employed in the Departments of Government. The completion of the curriculum of Group IV in the College of Arts and Sciences, and the prescribed and elective courses in the Teachers College, is recognized by the granting of a Bachelor of Arts degree and a Teacher's Diploma.

Opportunity is also offered to graduate students to pursue a major or minor in Education, leading to the granting of a Teacher's Diploma in conjunction with a Master's or a Doctor's degree. In this connection attention may be called to the exceptional facilities existing in Washington for graduate study particularly in the history of education in the United States. The extensive collections of the Congressional Library and the library and archives of the United States Bureau of Education furnish unrivalled opportunities in this department.

#### ADMISSION.

Applicants for admission as regular students, *i. e.*, as candidates for a degree, must present certificates showing that they have completed the first two years of the prescribed curriculum in the College of Arts and Sciences, or an equivalent course in some other institution. Teachers in service, however, and graduates of Normal Schools, who are entitled to advanced standing, may be registered in Teachers College, and conditioned in the prescribed studies in which they may be deficient, until they shall have completed those courses. But persons desirous of taking one or more of the professional courses, without becoming candidates for a degree, may be admitted as special students on the presentation of satisfactory evidence that they are qualified to pursue the work to advantage. Students who have begun their college course in another Group than that entitling them to admission to Teachers College may transfer their registration to Group IV, provided that they complete all the prescribed work of the latter Group.

**ADMISSION TO ADVANCED STANDING.**

Students who have pursued courses of study in other colleges or universities of approved rank will receive advanced credit for such work on the presentation of certificates.

Graduates of approved Normal Schools, Training Colleges, or Technical Schools, and teachers of experience who have studied privately, will be admitted to such advanced standing as the courses they have pursued warrant.

**THE TEACHERS COURSE.**

The full college course for the training of teachers comprises therefore the following educational divisions, the first two made up of prescribed studies and of qualified electives, the third of free electives:

(a) A foundation of 22-24 hours of general culture studies, pursued in the College of Arts and Sciences, and prescribed in accordance with the view that a teacher's preparatory training should omit no one of the principal elements of culture, supplemented by 6 to 8 hours elective among the same subjects, in order to make the curriculum adaptable to the varying needs of individuals.

(b) A minimum of ten hours of professional training courses.

(c) Twenty free elective hours of special information courses and further training courses.

In recognition of the professional training and the high number of prescribed hours of study, graduates of the Teachers College will receive, in addition to the Bachelor of Arts degree, a Teacher's Diploma. Both are conferred by the University.

An "hour" of study represents one hour of recitation or lecture work per week for one academic year, or its equivalent.

**GRADUATION.**

To be recommended for a Bachelor of Arts degree and a Teacher's Diploma, the student must complete courses of study aggregating at least sixty hours. Thirty-two or thirty-four of these hours are prescribed studies, and the remainder are electives. The prescribed studies are the following:

(a) In general culture subjects:

	Hours.
English .....	3
Mathematics or Science.....	3
French, German, Latin or Greek.....	3
History .....	3
Psychology .....	3
Philosophy, Political Economy or History.....	2 or 3
Languages or Sciences .....	5 or 6



(b) In professional subjects:		Hours.
History of Education .....		2
Principles of Education } .....		3
Educational Psychology }		
Child Study, or		2
Principles of Secondary Education }		
Classroom Management and Supervision, or }		1
School Administration }		
Observation and Practice Teaching .....		2

(For further definition of these requirements, see the introductory note under Courses of Instruction.)

The electives should be chosen with direct reference to the subjects which the student wishes to teach.

#### THE TEACHER'S DIPLOMA.

The Teacher's Diploma is granted in connection with the Bachelor of Arts degree, upon the fulfilment of the following conditions: *a.* The student must have satisfactorily completed the courses of study defined in the preceding paragraph. *b.* He must, in the judgment of his instructors, also possess other qualifications essential to success in teaching.

The Diploma is also given in connection with higher degrees, provided a graduate student has taken a major or minor in Education, and has also satisfied the requirements *a* and *b* above, or in lieu of *a*, has completed an equivalent amount of pedagogical and other work in another institution.

#### UNIVERSITY SCHOLARSHIPS.

Holders of the Kendall Scholarship and the University Scholarships may register in Teachers College on the same terms as in other departments of the University. For particulars see page 49.

#### PRACTICE TEACHING.

Ample opportunity will be afforded for practice in teaching by (a) attendance upon observation classes conducted by experienced teachers, and (b) actual practice in teaching under the supervision and subject to the criticism of teacher critics.

#### EXPERIMENTAL WORK.

A psychological laboratory for introductory experimental work occupies the entire fourth floor of the Education Building. It comprises an instrument room, a general laboratory, a research room, a

dark room for experiments on vision, and a photographic dark room. The equipment is specially adapted to the investigation of problems of interest to students of education. The advanced courses in experimental psychology are conducted at the Government Hospital for the Insane. These courses are modified each year to meet the requirements of the students electing them, and the facilities and equipment of this laboratory are in many respects unrivalled.

The school system of a large city, moreover, offers abundant opportunity for observation, and for the statistical study of methods and other practical educational problems.

#### TEACHERS COLLEGE LIBRARY.

A commodious room on the ground floor of the Education Building has been devoted to the purposes of a department library. The library is supplied with the most important reference books and periodicals in Education, Psychology, and Philosophy, together with the principal Reports, etc. The reading room is open from 9 a. m. to 12 m. and from 1.30 p. m. to 6 p. m., each day of the University calendar year. In addition, books may be withdrawn over night and from Saturday to Monday. For a statement of other library facilities see "University Library," page 13, and "Libraries," page 15.

#### TEACHERS APPOINTMENT BUREAU.

The Teachers College maintains a Teachers Appointment Bureau for the purpose of aiding students who are studying, or have studied, in the Teachers College, or in the College of Arts and Sciences, to secure positions as teachers. This service is performed gratuitously, in the interest both of students and of superintendents of schools and boards of education wishing to employ teachers. Communications should be addressed to the "Teachers Appointment Bureau," Teachers College, The George Washington University.



## DIVISION OF ARCHITECTURE.

## ADMISSION.

Each applicant for admission is required to present a testimonial of good moral character, and also a certificate of standing and regular dismissal from the school or college which he has attended or from the tutor with whom he has studied.

Candidates for admission to the Freshman Class may present certificates of admission or take an examination in the required books and subjects.

*The requirement for admission is a four-year high school course, or its equivalent, amounting to fifteen "units." A unit is a subject studied one school-year of five periods a week. Seventy-five such periods or "counts" make the fifteen-unit requirement.*

*These fifteen units must include English, 3 units; Mathematics, 2 units; and one of the following languages: Latin, 4 units; Greek, 3 units; French, 2 units; German, 2 units; or Spanish, 2 units. The remainder of the requirement is elective and may be satisfied in general by any high school subject approved by the College Entrance Examination Board. Subjects that will be accepted are described on pages 33-41 of this catalogue.*

REQUIREMENTS FOR THE DEGREE OF BACHELOR OF SCIENCE  
IN ARCHITECTURE.

To be recommended for the degree of Bachelor of Science in Architecture the student must be registered in the Division of Architecture for at least one academic year, he must satisfy the admission requirements, and must complete the prescribed course for the degree. This is a four-year course. General culture studies are pursued through the first two years, about half of the time being devoted to them. The rest of the course is devoted to architectural work. The unit of credit is one hour of recitation or lecture per week throughout the academic year. Laboratory hours count one-fourth unit each.

*First Year.*

	Hours.
English .....	3
French, Italian, or German.....	3
Science .....	3
Architectural Drawing (3).....	3
Shades, Shadows, and Perspectives (4).....	2
Freehand Drawing (2).....	1

*Second Year.*

	Hours.
English .....	3
French, Italian, or German.....	3
Science .....	2
Rendering, Design (3).....	3
Freehand Drawing (6).....	2
History of Architecture (20).....	2
	<hr/>
	15

*Third Year.*

Mechanics of Materials (First term).....	3
Graphic Statics (Second term)	
Building Construction (21).....	2
History of Architecture (32).....	2
Pen and Ink Rendering (27) or Water Colors (34)....	1
Design and Sketch Design (25).....	4
Drawing from the Antique (26).....	1
Water Colors (34).....	2
	<hr/>
	15

*Fourth Year.*

Design and Sketch Design—Thesis (27).....	4
Sanitary Engineering .....	2
History of Painting and Sculpture (31).....	1
Building Construction (33).....	2
Drawing from Life (35).....	1
Water Colors (34).....	2
History of Architecture (23).....	2
Office Practice (36).....	1
	<hr/>
	15

A special course may be arranged for qualified students who wish to take the purely technical work of the Architectural course. Special students to receive a certificate on the satisfactory completion of the course as outlined below.

*First Year.*

Architecture (3) .....	3
Shades and Shadows (4).....	2
Freehand (2) .....	2
Construction (21) .....	2
	<hr/>
	9



*Second Year.*

	Hours.
Architecture (5) .....	3
Construction (33) .....	2
History (Classical and Mediæval).....	2
Freehand (6) .....	2
Pen and Ink (27) or Water Colors (34).....	1

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 10
*Third Year.*

Architecture (25) .....	3
History (Renaissance), (23).....	2
History (Painting and Sculpture, or Archæology).....	1
Water Colors (34).....	2
Advanced Freehand .....	2

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 10

In addition, before the certificate will be awarded the student must show that he has satisfactorily completed courses 26, 35, and 39.

**PRIZES.**

The Washington Architectural Club offers membership in the Club as a prize in Architecture. In 1903-04 this prize was awarded to Charles R. Lombard; in 1904-05 to W. H. I. Fleming; in 1905-06 to S. Peter Wagner; in 1906-07 to Reginald W. Geare; in 1907-08 to Meade Bolton with honorable mention to Carrington Foster; in 1908-09 to Nevell S. Buckingham with honorable mention to Warner Addison Ebbetts.

The Architectural League of America offers an annual Traveling Scholarship in Architecture, value \$1200 to students and draftsmen in Architecture under 35 years of age. All architectural students in the University, who are members of the George Washington University Architectural Club are eligible to compete for this prize.

The following prizes are open to students taking Beaux Arts problems:

**PARIS PRIZE.**

This prize, conducted by the Society of Beaux Arts Architects, gives to the winner, by authorizations of the French Government, the privilege of following the lectures and of taking part in the competition of the first class in Architecture at the École des Beaux Arts of Paris; he must, however, have already successfully pursued studies corresponding to those prescribed in the second class at that institution, for which condition he will be allowed six months to qualify. The winner, moreover,

receives a stipend of two hundred and fifty dollars quarterly during his stay abroad, which should last two and one-half years.

Competitors must be under twenty-seven years of age.

#### WARREN PRIZE.

This consists of two prizes of fifty dollars and twenty-five dollars, respectively, for the most successful solution of a problem in planning.

#### PUPIN PRIZE.

Two prizes of fifty dollars and twenty-five dollars, respectively, are offered by Prof. PUPIN, of Columbia University, for the best designs for the ornamental treatment of some scientific appliance.



## Department of Arts and Sciences.

### COURSES OF INSTRUCTION.

#### UNIVERSITY SUBJECTS.

University Subjects are divided into three sections, in accordance with the following requirement of an ordinance adopted by the Board of Trustees, October 12, 1902:

#### ARTICLE IV.—*Development of University Subjects.*

SECTION I. Subjects shall be divided into three sections, as follows:

(1) The fundamental section, covering two years' work; this section to be assigned to students in the general-culture courses.

(2) The advanced section, not exceeding three years; this section to be assigned to students specializing for literary, scientific, professional, or industrial pursuits.

(3) The original research section; this section to be assigned to students pursuing a subject for discovery and broader culture.

First-section courses can be taken by third- or fourth-year students only by permission of the Dean and the professor in charge of the subject. They may sometimes be recommended to graduate students, but are not counted toward the higher degrees. The courses in the second section are in general for advanced students, candidates for the Bachelor's degree; they serve, however, with additional work as minors for the higher degrees, provided they have not already counted toward a degree. They may be taken by students in the second year of their course only by special permission of the professor in charge. The courses in the third section are in general for graduate students only, candidates for one or other of the higher degrees. They are open to undergraduates only on the recommendation of the instructors, and no undergraduate student shall take in one year more than one course in the third section. When an announced course has not been applied for by at least three students, candidates for a degree, the instructor may withdraw the course. First-section courses are numbered 1 to 19, inclusive; second-section courses from 20 to 39, inclusive; third-section courses are numbered on from 40. The number of hours, unless otherwise specified, indicates hours per week throughout the year. The unit of credit is one hour of recitation or lecture work per week for one academic year; laboratory hours in Chemistry and Architecture count

one-third unit each, in other subjects one-half unit each. Sixty units of credit is the minimum requirement for the Bachelor's degree. Laboratories and drawing-rooms will be open from 9 a. m. till 10 p. m., with competent assistants in charge to direct students. No student is admitted to a course unless he fulfills all of the preliminary requirements for that course, or otherwise satisfies the instructor that he is prepared to pursue it. Every student must make his election of courses so as to avoid conflict between the hours appointed for recitations.

### ANATOMY.

D. KERFOOT SHUTE, A.B., M.D.....Professor

#### *Third Section. Primarily for Graduates.*

40. Anatomy of the Nervous System.—The nervous system is investigated in typical animals of the different classes, especially with the view of gaining some insight into the phylogeny of the central nervous system in man. The growth of the brain and its physical characters as related to intelligence are investigated. The histology and embryology of the central nervous system and the sense organs are studied. A history of the guiding conceptions in neurology is to be acquired. The course is designed to inculcate students of anatomy, medicine, and psychology with a sound knowledge of the architecture and functions of the nervous system of man. Two hours. Professor SHUTE.

### ARCHITECTURE.

PERCY ASH, B.S.....Professor

ALBERT BURNLEY BIBB.....Professor

CHAS. MASON REMEY.....Assistant Professor

W. H. I. FLEMING, B.S.....Assistant

DELOS H. SMITH, B.S.....Assistant

Criticisms in design are regularly given by practicing architects, in addition to the regular corps of instructors.

#### *First Section. Primarily for Undergraduates.*

1. Freehand Drawing. This course consists of drawing, in charcoal, of cubes, cones, etc. Professor BIBB.

2. Freehand Drawing. For architectural students primarily. This course begins with drawing, in charcoal, of cubes, cones, etc., and is followed by a series of drawings from architectural casts. *Mon.* 4-50, *Wed.*, 10 to 12 and 5-40. Professor BIBB.

3. Architectural Drawing and Elementary Design. This course includes the study of the Five Orders of Architecture, the use of India



ink, and water-color rendering. Lectures on the Five Orders on Tuesday, at 4.50, and at least eleven additional hours in the drafting-room. Professor ASH.

4. Shades, Shadows, and Perspectives. A course in orthographic projections, shades, shadows, and perspectives. *Tues.* and *Fri.*, at 11 and 5.40. Assistant Professor REMEY.

5. Rendering and Design. In this course the instructions in India ink rendering and the use of water colors given in the first year are continued. At least twelve hours each week are devoted to the problems in design. Six regular problems and five sketch problems constitute the course in design. Criticism, by Professor ASH and Assistant Professor REMEY.

6. Freehand Drawing. The drawing from architectural casts in both charcoal and pencil continues the work begun in the first year, and is intended to fit the student for his subsequent freehand drawing from the antique. *Mon.* 4.50, *Wed.* 10 to 12 and 5.40. Professor BIBB.

*Second Section. For Undergraduates and Graduates.*

20. History of Architecture. History of Classical and Early Christian architecture. Illustrated. Two lectures per week. *Tues.*, *Fri.*, at 4.50. Professor BIBB.

21. Building Construction. Frame construction and interior finish. Professor ASH.

22. Sanitary Engineering of Buildings. One hour. (Course to be arranged.)

23. History of Architecture. History of Renaissance architecture. Illustrated. Two lectures per week, and one additional hour for research. *Mon.*, *Fri.*, at 4.50. Professor ASH.

24. Pen and Ink Rendering. A study of the works of the best draftsmen, with practice in the use of the pen as a means of architectural expression. *Th.*, 10 and 4.50. Professor ASH.

25. Design and Sketch Design. This course embraces problems in plan, in archaeology, and in sketch design. Three problems in archaeology, three plan problems, and five sketch problems constitute the course. The student is required to spend at least sixteen hours in the drafting-room each week. Criticism, by Professor ASH and Assistant Professor REMEY.

26. Drawing from the Antique. To be eligible for this course the student must have passed satisfactorily Course 6. He is required to devote at least four hours per week to working from the antique in the Corcoran Gallery of Art.

27. Design and Sketch Design. Thesis. Problems of an advanced character are assigned to the student during the first term. Three ad-

vanced problems and three sketch problems are required of the student in addition to his thesis. The three months preceding graduation are devoted to the production of the thesis designs, the subject for the thesis being selected by the student. The student is required to spend sixteen hours each week in the drafting-room. Criticism is given three times a week by Professor ASH and Assistant Professor REMEY.

28. Modeling (Architectural). This course will be arranged and an instructor appointed at an early date.

29. History of Art, a course in the history of sculpture, architecture, and painting. (a) Greek and Roman. First half-year. (b) Renaissance and Modern. Second half-year. *Mon., Wed., Fri., at 1.30.*

30. History of Painting and Sculpture. This course will comprise a series of illustrated lectures on painting and sculpture. Professor BIBB.

31. History of Mediæval Architecture. Two lectures and one hour for research per week. Professor BIBB.

32. Building Construction. Masonry, cements, foundations, soils, etc. *Mon., at 5.40, Tues., 10, Wed., 4.50, Th., 10.* Professor ASH.

33. Water Colors. *Th., at 4.50 and 5.40.* Professor BIBB.

34. Drawing from Life. Six hours per week at the Corcoran Gallery of Art.

35. Office Practice. A course of practical planning and detailing. Four hours per week. Professor ASH.

36. A special course in design will be given, consisting of six regular and five sketch problems. This course is intended to prepare students for the Beaux Arts problems. Criticisms, by Professor ASH and Assistant Professor REMEY.

37. In this course the problems prepared by the New York Society of Beaux Arts Architects will be offered to the students, and the judgments will be made by the jury in New York City under the rules of the society. Criticisms, by Professor ASH and Assistant Professor REMEY.

38. Summer Work. Each architectural student is required during the summer vacation to make at least twenty-four sketches from nature, or to do an equivalent amount of work; namely, four weeks in an architect's office, or the measured drawings of an existing monument of architecture.

#### *Third Section. Primarily for Graduates.*

40. Composition as applied to architecture.

41. Advanced design.

#### ASTRO-PHYSICS.

FRANK HAGAR BIGELOW, A.M., L.H.D.....Professor  
FREDERICK E. FOWLE, JR.....Lecturer



*Third Section. Primarily for Graduates.*

40. Solar Physics. Professor BIGELOW.
41. Cosmical Electricity and Magnetism. Professor BIGELOW.
42. Terrestrial Magnetism. Professor BIGELOW.
43. Meteorology. Professor BIGELOW.
44. A lecture course on the astro-physical instruments employed in modern research. To be taken in connection with Courses 40 and 41. Mr. FOWLE.

**BACTERIOLOGY AND PATHOLOGY.**

JOSEPH J. KINYOUN, M.D., Ph.D.....Professor

*Third Section. Primarily for Graduates.*

40. Bacteriology. Special studies and practical research work. Professor KINYOUN.

**BIOLOGICAL SCIENCES.**

THEODORE NICHOLAS GILL, M.D., Ph.D., LL.D.....Professor  
 PAUL BARTSCH, M.S., Ph.D.....Professor  
 ALBERT MANN, A.M., Ph.D.....Professor

**ZOOLOGY.***First Section. Primarily for Undergraduates.*

1. Systematic Zoology. I. Invertebrates. This includes lectures and laboratory work. The lectures in their scope cover all the branches of Invertebrates, and correlated with these lectures is the study and dissection of typical specimens in each group. This course is intended to familiarize the student with biological characters, classificatory laws, and the general principles of evolution. Lecture, one hour; laboratory, two two-hour periods. Professor BARTSCH.
2. Systematic Zoology. II. Vertebrates. This includes lectures and laboratory work. The lectures will cover the various branches of Vertebrata and correlated with these is the study and dissection of typical specimens of each group. Open only to students having completed Course 1. Professor BARTSCH.
3. Biology. Introductory course. The physiology, morphology, and natural history of type forms, selected from both the plant and animal kingdoms, are studied in the laboratory and lecture-room. Drawings are carefully made of gross and microscopic anatomy. During part of the second term slides and embryos of the frog or chick are prepared and studied. Lectures are given on the biological theories; and trips are made to the museums and collecting grounds.

*Second Section. For Undergraduates and Graduates.*

20. Practical Zoölogy. A lecture course illustrated with lantern slides and demonstrations. In this course only beneficial and injurious animals of all classes will be considered, especial stress being laid upon the problems of preservation and extermination. The course aims to expound the economic side of zoölogy. Open to all students. One hour. Professor BARTSCH.

23. Ornithology. A systematic course embracing lectures and laboratory work. The lectures are illustrated with lantern slides, showing the home life of birds. The laboratory work consists in classifying bird skins, of which the University possesses an excellent series. Special attention is directed to the study of the birds of the District of Columbia, and frequent field excursions are made to familiarize the student with the haunts and habits of these forms. Lecture, one hour; laboratory, one two-hour period. Professor BARTSCH.

Laboratory courses in histology and physiology will be arranged for competent students.

*Third Section. Primarily for Graduates.*

40. A general course of lectures on the principles of zoölogy, including a consideration of the philosophy, the methods of investigation, and the systems of zoölogy as determined by comparative anatomy. The lectures are supplemented by work in the laboratory, embracing histology, microtomy, and dissection. The student is required to take up some subject or group for original investigation. Professor GILL.

The collections of the United States National Museum and the Smithsonian Institution are consulted in connection with all these courses.

THE JAMES CRICHTON COLLECTION.—An accession of value and interest to the Zoölogical laboratory is a recent gift to the University of a collection of butterflies, made by Mr. James Crichton. It is given to the University by the friends of Mr. Crichton as a memorial to him, and it is known as the "James Crichton Collection."

## BOTANY.

*Third Section. Primarily for Graduates.*

40. Original investigations in (a) Economic Botany, *Materia Medica*, etc.; (b) Parasitism and Monstrosities; (c) Researches in Physiology of single groups; (d) Comparative Organography. Professor MANN.

## CHEMISTRY.

CHARLES E. MUNROE, Ph.D. .... Professor  
FRANK WIGGLESWORTH CLARKE, Sc.D. .... Professor of Mineral Chemistry



HARVEY W. WILEY, Ph.D., M.D.	Professor of Agricultural Chemistry
EDWARD G. SEIBERT, M.D.	Assistant Professor of Chemistry
N. MONROE HOPKINS, Ph.D.	Assistant Professor
EDWIN A. HILL, Ph.D.	Assistant Professor
THOMAS M. PRICE, Ph.D.	Assistant Professor
I. K. PHELPS, Ph.D.	Assistant Professor of Physiological Chemistry
OTIS D. SWETT, M.S.	Instructor
HOWARD B. LEWIS, B.A.	Teaching Fellow

*First Section. Primarily for Undergraduates.*

1. General Chemistry. A series of illustrated lectures, accompanied by recitations and exercises, on theoretical, inorganic, organic, and technical chemistry. *Tu., Th., Sat.*, at 4.50. Professor MUNROE, Mr. SWETT.
2. Laboratory Practice. A laboratory course for the study of the principles of chemistry and the methods of conducting chemical experiments. Two three-hour periods. *Tu., Th.*, at 1.30. Professor MUNROE, Assistant Professor HILL, Mr. SWETT, Mr. LEWIS.
3. Preparation and Study of the Properties of Chemical Substances. A laboratory course. Two three-hour periods. *Tu., Th.*, at 1.30. Professor MUNROE, Mr. SWETT, Mr. LEWIS.
4. Assaying and Metallurgy of the Precious Metals, carried on by the methods used by the Government assayers, the laboratory being fitted up on the plan of that of the United States Mint. Twelve hours, for three months. Professor MUNROE, Mr. SWETT.
5. Lectures on the Principles of Analysis. One hour. Professor MUNROE.
6. Metallurgy of Iron and Steel. A course of lectures and readings. *Tu.*, at 5.40. Professor MUNROE.
7. Qualitative Analysis. A brief course intended primarily for students in engineering. Two three-hour periods. Professor MUNROE, Assistant Professor HILL, Mr. SWETT, Mr. LEWIS.

*Second Section. For Undergraduates and Graduates.*

20. Qualitative Analysis. A laboratory course in the study of the properties and reactions of chemical substances, and of the means employed for their detection and identification. Three three-hour periods. Professor MUNROE, Assistant Professor PRICE, Mr. SWETT.
21. Quantitative Analysis. A laboratory course in the quantitative estimation of the constituents of a specially selected and typical set of chemical substances, which are particularly adapted for teaching the student the aims and methods of quantitative chemical analysis and for imparting facility in manipulation. Four three-hour periods. Professor MUNROE, Assistant Professor PRICE, Mr. SWETT, Mr. LEWIS.

23. Advanced course in Organic Chemistry. *Wed., Fri.*, at 4.50. Professor MUNROE, Mr. SWETT.

24. Advanced course in Organic Chemistry. A continuation of Course 23. *Th., Sat.*, at 5.40. Professor MUNROE, Mr. SWETT.

25. Chemistry of the Carbon Compounds. A laboratory course in the preparation and study of the properties of a characteristic series of organic compounds. Four three-hour periods. Professor MUNROE, Mr. SWETT, Mr. LEWIS.

27. Stereo-chemistry. This course deals with the arrangements of atoms in space from a theoretical standpoint, while the student is taught how to form models by which to illustrate their arrangements. Two hours. Assistant Professor HILL.

28. Biochemistry. A laboratory course in the chemical examination of some of the chief foodstuffs, the tissues and fluids of the body, and the products of certain organisms; also the isolation of the digestive enzymes and a study of their action *in vitro*. Three three-hour periods. Assistant Professor PRICE.

29. Organic Chemistry. Especially designed for students in medicine and dentistry. Two hours for one term. Professor MUNROE.

30. Physiological Chemistry. A series of lectures and recitations on the proximate principles of the human body. Two hours for one term. Doctor PHELPS.

31. Clinical Analysis. A laboratory course to accompany 29. Professor MUNROE, Doctor PHELPS, Mr. LEWIS.

#### *Third Section. Primarily for Graduates.*

40. Explosive Substances. Professor MUNROE.

41. Analytical Methods. Professor MUNROE.

43. Development of the Theory of the Constitution of the Natural Silicates. Professor CLARKE.

44. Special Researches in Agricultural Chemistry. Professor WILEY.

45. Special Researches in Electro-chemistry. Assistant Professor HOPKINS.

Students in Chemistry are invited to attend the meetings of the Chemical Society of Washington. These meetings are held on the second Thursday of each month from October to May, in the Assembly Hall of the Cosmos Club, at 8 p. m.

#### CLASSICAL LANGUAGES AND LITERATURES.

MITCHELL CARROLL, Ph.D. .... Professor  
CHARLES SIDNEY SMITH, Ph.D. .... Professor



## GREEK.

*First Section. Primarily for Undergraduates.*

1. Lysias (selected orations); Herodotus (selections); Euripides (*Alcestis*); Greek prose composition. *Mon., Wed., Fri.*, at 2.30. Professor SMITH.

2. Thucydides (Book VII); Sophocles (*Antigone*); Xenophon (*Memorabilia*). *Mon., Wed., Fri.*, at 11. Professor SMITH.

A. Elementary Course. For students who have not taken Greek before matriculating. It aims to cover as much as possible of the entrance requirements in Greek. Three hours. Professor SMITH.

B. Homer: *Iliad* I-IV or *Odyssey* V-VIII. For students who have taken the elementary course and desire to enter Course 1. Two hours. Professor CARROLL.

*Second Section. For Undergraduates and Graduates.*

20. Plato (selections); Aristophanes (*Clouds*); The Attica of Pausanias. Given in 1908-09. Not given in 1909-10. Professor CARROLL.

21. Greek Literary Criticism: Aristotle (*Art of Poetry*); Aristophanes (*Frogs*); Greek Lyric Poetry (selections); Conferences on History of Greek Literature. *Tu., Th.*, at 9. Professor CARROLL.

22. Greek Prose Composition (advanced course): Practical exercises in syntax and translation. *Th.*, at 11. Professor CARROLL.

## LATIN.

*First Section. Primarily for Undergraduates.*

1. Livy (Books I, XXI); Cicero (*De Senectute*); Horace (*Odes and Epodes*); Latin prose composition. *Mon., Wed., Fri.*, at 3.30. Professor CARROLL and Professor SMITH.

2. Cicero and Pliny (selected letters); Satires and Epistles of Horace; Ovid (selections); Martial (selections). *Mon., Wed., Fri.*, at 1.30. Professor CARROLL and Professor SMITH.

*Second Section. For Undergraduates and Graduates.*

20. Tacitus (selections); Plautus and Terence. Given in 1908-09. Not given in 1909-10. Professor CARROLL and Professor SMITH.

21. Roman Literary Criticism: Quintilian (Book X) and Horace (*Ars Poetica*); Catullus, Tibullus, and Propertius. *Tu., Th.*, at 10. Professor CARROLL and Professor SMITH.

22. Latin Composition and Reading at Sight: Practice in Latin expression and style. *Tu.*, at 1.30. Professor SMITH.

23. Law Latin. For law students and others who desire preparation in Latin for the study of Roman Law. Two hours. Mr. HENDRY.

## TEACHERS COURSES IN SECONDARY LATIN.

In these courses the teacher is trained for the work of the class-room. In addition to the reading of the authors, each course includes a review of forms, syntax, and prose composition, practice in conducting recitations and discussion of methods of secondary instruction.

24. Cicero's Orations. *Wed.*, 4.50-6.30. Professor CARROLL and Professor SMITH.

25. Cæsar's Gallic and Civil Wars. Two hours. Not given in 1909-10. Given in 1910-1911. Professor CARROLL and Professor SMITH.

26. Virgil's *Æneid*. Two hours. Given in 1908-1909. Not given in 1909-10. Professor CARROLL.

## CLASSICAL ARCHÆOLOGY.

20. Greek and Roman Civilization. Two hours. Given in 1908-09. Not given in 1909-10. Professor CARROLL.

21. History of Art. A study of Greek and Roman Architecture, Sculpture and Painting, followed by a sketch of the history of these arts in the Renaissance and in modern times. The course is illustrated by prints, photographs and lantern slides. *Mon., Th.*, at 2.30. Professor CARROLL.

22. Parallel with Course 21. *Mon. Th.*, at 4.50. Professor CARROLL.

*Third Section. Primarily for Graduates.*

The Seminary of the Classics is designed to afford discipline in the methods of philological criticism and research with special reference to the interpretation of classical authors. The authors selected are as follows:

1908-09. Greek 40, Homer; Latin 40, Virgil.

1909-10. Greek 42, Greek Historians; Latin 41, Roman Historians.

1910-11. Greek 41, Attic Orators; Latin 42, Cicero's Orations.

Regular meetings of the Seminary are held *Tu., Fri.*, 4.50-6.30. Professor CARROLL.

## THE UNIVERSITY CLASSICAL CLUB.

The University Classical Club composed of instructors and advanced students in Greek, Latin and Classical Archæology, meets monthly, for the consideration of topics in ancient life, literature and art. Students in classics are invited to attend the public meetings of the Washington Society of the Archæological Institute of America and of the Washington Classical Club.

## AMERICAN SCHOOL OF CLASSICAL STUDIES AT ATHENS.

The University, through friends, is a contributor to the support of the American School of Classical Studies at Athens, and graduates of this University are admitted without expense for tuition.



## COMMERCE AND TRANSPORTATION.

HENRY PARKER WILLIS, Ph.D.....	Professor
ROBERT R. KERN, Ph.D.....	Instructor
JOHN BALL OSBORNE, A.M.....	Lecturer
JOHN WILMER LATIMER, LL.B.....	Lecturer

*Second Section. For Undergraduates and Graduates.*

20. Commercial and Maritime Law. An outline of the principles of the law relating to commercial transactions generally, including those peculiar to the sea, with more especial reference to the subjects of contracts, sales, bailments, agency, partnership, negotiable instruments and common carriers. Second half-year. *Tu., Th., Sat.*, 4.50 p. m. Mr. LATIMER.

21. Commercial and Industrial History. The rise and progress of commerce from antiquity to modern times, with particular emphasis on the effects of commerce upon civilization and the relations between commercial and political development. The rise and progress of economic activities in the English colonies of North America and of the agricultural, commercial, and industrial growth of the United States. First half-year. *Tu., Th., Sat.*, 9 a. m. Dr. KERN.

22. Modern Business Organization. A study of the modern business, the present modes of producing and distributing commodities, modes of controlling prices, systems of retailing, advertising, etc. Second half-year. *Tu., Th., Sat.*, 9 a. m. Dr. KERN.

23. Commerce and Industries of the United States. A study of the resources, industries, business activities, and internal and foreign commerce of the United States; the products of the various sections, the transportation systems by which they are interchanged or assembled for manufacturing and redistribution; the manufacturing systems; the exchange among our own people; the distribution to foreign countries; the markets in which exports are sold and from which imports are drawn. Three hours, first half-year. Not given in 1909-10. Dr. KERN.

24. Commercial Geography. The products, industries, and commerce of the various countries and sections of the world; the exchanges between climatic sections and between the great producing and manufacturing sections and countries of the world; the staple articles of commerce, their places of production and sale; the manufacturing industries, and the distribution of their products; the transportation and financial systems by which interchanges are facilitated; a comparative view of the commercial, economic, and financial conditions in the various sections and countries of the world, including a brief outline of commercial history. Three hours, second half-year. Not given in 1909-10. Dr. KERN.

25. International Trade. A discussion of the theory and mechanism of international trade, followed by a study of the trade relations of the United States and the conquest of foreign markets. Two hours, first half-year. *Tu.*, 4.50 to 6.30 p. m. Mr. OSBORNE.

26. Commercial Policies. Study of the trade policies of the principal commercial powers; history of the policy of reciprocity; commercial treaties and agreements of the United States; doctrine of the most favored nation; tariffs of the United States and the principal foreign countries, particularly the double tariff system. Second half-year. *Fri.*, 8 a. m. Mr. OSBORNE.

#### *Third Section. For Graduates.*

40. Transportation. An inductive study of the status of American railways and other common carriers. The rise and development of the railway, the location, chartering, and financing of a line, general features of operation, rate theories and practices, rebates, rate wars, pools, consolidations, the rise of government supervision, and the experience of France, England, and Germany in all these items is the scope of this course. It presupposes either familiarity with the elements of political economy, or railway experience. Two hours, throughout the year. *Tu.*, 4.50 to 6.30 p. m. Dr. KERN.

41. Transportation Problems. Detailed studies in the rate problem connected with certain commodities, the relation of express companies to railways, coordination of waterways with railways, ocean transportation, export and import rate discriminations, and current topics. Open to those who have taken the course in Transportation or its equivalent. Seminary methods to be followed in part. Two hours, throughout the year. Not given in 1909-10. Dr. KERN.

42. Government Control of Transportation. A study of the constitutional powers of Congress over the agents, instrumentalities, and subjects of foreign and interstate commerce; the conflicts between federal regulation and the exercise of the police and taxing powers of the several States, and the powers and functions of the Interstate Commerce Commission. Two hours, throughout the year. *Th.*, 4.50 to 6.30 p. m. President NEEDHAM.

#### ECONOMICS AND FINANCE.

HENRY PARKER WILLIS, Ph.D. .... Professor  
ROBERT R. KERN, Ph.D. .... Instructor

#### *Second Section. For Undergraduates and Graduates.*

20. General Economics. An outline course in the principles of political economy, devoted mainly to the study of production and exchange



under present-day conditions. Given in two sections. First half-year. *Mon., Wed., Fri.*, 11 a. m. (Section a), 5.40 p. m. (Section b). Dr. KERN.

21. The Economics of Distribution and Consumption. A continuation of Course 1, devoted mainly to the problems of rent, interest, wages, and profits, and including an examination of competition, private property, luxury, saving, and speculation, in their effects upon human welfare. Given in two sections. Second half-year. *Mon., Wed., Fri.*, 11 a. m. (Section a), 5.40 p. m. (Section b). Dr. KERN.

22. Public Finance. A course in the development of budgetary and fiscal methods and principles. The history and tendencies of public expenditure under the Federal and State governments. The theory of taxation; administration of public domains, and industries; public debts. First half-year. *Tu., Th.*, 10 a. m. Professor WILLIS.

23. Money and Banking. The history and theory of money; the production of the precious metals; the theory of prices and measurement of price fluctuations; monetary systems; the relation of the Treasury system to our money supply; the theory of credit and banking; the national bank system of the United States and the banking system of foreign nations. Second half-year. *Tu., Th.*, at 10 a. m. Professor WILLIS.

24. Accounting. General Principles of accounting; the more important forms of commercial paper and business methods. A text-book on accounting and hand-books dealing with accounting forms and methods are used as guides. Much of the work is based upon library readings. The course terminates with a study of the accounts of representative kinds of business and the methods of accounting and auditing applicable thereto. First half-year. *Mon., Fri.*, 5.40 p. m. Professor WILLIS.

25. Corporation Finance. The various sorts of corporation securities; methods of organizing and financing modern industrial enterprises; the nature of investment and speculation; stock and produce exchanges; the effect of speculative and investment operations on the staple industries. Second half-year. *Mon., Fri.*, 5.40 p. m. Professor WILLIS.

26. Theory and Practice of Statistics. The elementary principles of statistics, with concrete examples of their applications; the graphic method; the use of averages; index numbers; and the special application of statistics to insurance; government statistical methods and publications in the United States and in the principal foreign countries. Two hours, second half-year. Not given in 1909-10. Professor WILLIS.

### *Third Section. For Graduates.*

40. Taxation. Taxation, its administration and organization. The legal problems which arise in connection with taxation will be studied

through typical cases. Two hours, second half-year. Not given in 1909-10. Professor WILLIS.

41. Advanced Accounting. A special study of accounting principles in their application to specified classes of business. Prerequisite—the course in accounting. First half-year. *Wed.*, 5.40. Professor WILLIS.

42. Insurance. The historical development of insurance; its economic aspects; fire, accident, and life insurance, from the standpoint of internal organization; rates; policies. Second half-year. *Wed.*, 5.40. Professor WILLIS.

43. Labor Problems. A brief sketch of the labor movement in the United States and of the aims and methods of trade unions, followed by a discussion of such problems as: Child labor; dangerous occupations; workingman's insurance against sickness, old age, accidents and unemployment; strikes and industrial conflicts; conciliation and arbitration; collective bargaining. Two hours, second half-year. Not given in 1909-10. Dr. KERN.

#### ENGINEERING.

PHILANDER BETTS, M.S., E.E. .... Assistant Professor of Electrical Engineering  
 EDWIN V. DUNSTAN, C.E. .... Assistant Professor of Civil Engineering  
 OSCAR A. MECHLIN, C.E. .... Assistant Professor of Civil Engineering  
 ARTHUR CUTTS WILLARD, B.S. .... Assistant Professor of Mechanical Engineering  
 F. CHARLES STARR, B.S. .... Instructor in Civil Engineering  
 CHARLES W. MORTIMER, M.E. .... Instructor in Electrical Engineering  
 ..... Assistant in Drawing

#### APPLIED MATHEMATICS.

##### *Second Section. For Undergraduates and Graduates.*

20. Analytical and Applied Mechanics. (1) Statics: including the composition, resolution, and equilibrium of forces; center of gravity; friction; machines. (2) Kinematics and Kinetics: including rectilinear and curvilinear motion; motion under action of variable forces and in resisting media; constrained and rotatory motion; impact; work and energy; moment of inertia. Four hours a week first half-year. Assistant Professor DUNSTAN.

21. Hydraulics. The theoretical principles of hydraulics: including hydrostatics, flow through orifices, over weirs, through pipes and in open channels, and the dynamic pressure of water. Experiments in connection with this course are made in the Engineering Laboratory. Four hours a week second half-year. Assistant Professor DUNSTAN.



22. Mechanics of Materials and Theory of Elasticity: including elastic and ultimate strength and deformation; simple, cantilever and continuous beams; columns, torsion; combined stresses; compound columns and beams: including reinforced concrete; resilience; work; fatigue; mathematical theory of elasticity. Four hours a week second half-year. Assistant Professor MECHLIN.

### CIVIL ENGINEERING.

#### *First Section. Primarily for Undergraduates.*

1. Surveying and Mapping. This course includes the theory and use of instruments; land, topographic, hydrographic, mining, city, and geodetic surveying; measurement of volumes, projection of maps, etc. Two hours a week. Field work, usually on Saturday. Mr. STARR.

2. Railroad Engineering. Railroad curves and earthwork; location of about two miles of railroad, including reconnaissance, preliminary and final locations, construction of contour maps and profiles, computation of earthwork, design of culverts, etc.; laying out curves; track work, etc. Two hours a week. Field work, usually on Saturday. Assistant Professor DUNSTAN.

3. Highways and Pavements. Location of highways; construction, improvement and maintenance of roads and pavements; curbs, gutters, sidewalks. One lecture and one design period during the first term. Assistant Professor MECHLIN.

4. Materials of Construction. A study of the properties of stone, brick, cement, concrete, wood, iron, steel, etc., with reference to processes of manufacture. The course is supplemented by a number of practical tests made by the students. Two lectures for first term and one lecture and one laboratory period for second term. Assistant Professor MECHLIN.

5. Surveying Instruments. A two-months' course for Mechanical and Electrical Engineering students, covering the use of the compass, transit, and level. Lectures and field exercises, two hours per week. Mr. STARR.

6. Foundations. A two-months' course for Mechanical and Electrical Engineering students, covering the general principles of foundation construction and the materials used. Two hours a week. Assistant Professor MECHLIN.

8. A course in Practical Astronomy for Civil Engineering students. Special attention is given to the methods of determining latitude, longitude, azimuth and time with the engineer's transit; observations for each being a required part of the course. Reference book: Young's

"Manual of Astronomy." Two lecture-recitation periods per week for one term. Mr. STARR.

*Second Section. For Undergraduates and Graduates.*

20. Masonry Construction. A course in the use of cement, brick, stone, and concrete, the design of foundations, retaining walls, dams, bridge piers and arches. Included in this is a short course in stereotomy. Two lectures and two design periods per week. Assistant Professor MECHLIN.

21. Hydraulic Engineering. The design and construction of water power plants and irrigation works. Flow of rivers; rainfall and runoff; methods of development; hydraulic motors; power transmission. Irrigation plans; distributing systems; water rights and irrigation law. Two lectures and one design period per week. Assistant Professor DUNSTAN.

22. Theory of Structures. A course covering the determination of stresses in framed structures by graphical and by analytical methods. The first term is devoted to beams and roof trusses; the second to bridge trusses under uniform and wheel loads. Three lectures and two design periods per week. Assistant Professor DUNSTAN.

23. Theory of Structures. The theory of steel design; the design of a roof truss, of a plate girder and a pin connected bridge truss and a study of the theory and design of suspension, continuous, cantilever, and arch bridges, and the details of steel-mill and office-building construction. Three lectures and two design periods per week. Assistant Professor MECHLIN.

24. Sanitary Engineering. This course treats of the drainage of buildings and lands; the treatment and disposal of sewage and the sewerage of cities and towns; public water supply and methods of water purification. Three lectures and one design period per week. Assistant Professor MECHLIN.

*Third Section. Primarily for Graduates.*

40. Advanced Masonry. A course in the theory and design of reinforced concrete structures. Assistant Professor MECHLIN.

41. Advanced Masonry. The theory of retaining walls and arches. Assistant Professor MECHLIN.

42. Testing of Materials. This course involves original research upon assigned topics. Assistant Professor MECHLIN.

43. Water Power Development. A comparative study of the principal water power developments of the United States and Europe. The course consists largely of assigned readings and reports thereon. Assistant Professor DUNSTAN.



## ELECTRICAL ENGINEERING.

*First Section. Primarily for Undergraduates.*

1. Elementary Mathematical Theory of Electricity and Magnetism, with special attention to the needs of engineering students. Three hours a week, until January 1. Mr. MORTIMER.

2. Direct-current motors and generators. Covers the laws of the magnetic circuit as applied to the dynamo. Students are required to design a direct-current machine. Text-books: Hawkins and Wallis's "The Dynamo." Three hours a week, beginning January 1. Mr. MORTIMER.

3. Elements of Electrical Engineering. Text-book: Tyson Sewell's "Elements of Electrical Engineering." Two hours a week. Mr. MORTIMER.

4. Electrical Measurements. A laboratory course for Juniors. Selected experiments. Foster's Hand-book and special laboratory notes are used for reference. Six hours a week, first term. Mr. MORTIMER.

5. Electrical Laboratory. Experiments and tests involving the operation of direct-current dynamos and motors, including tests of motors in service, operating elevators, street cars, and machinery of various kinds. Text-book: Sever and Townsend's "Laboratory and Factory Tests in Electrical Engineering." Six hours a week, second term. Assistant Professor BETTS and Mr. MORTIMER.

6. Industrial Electricity. A practical course intended for Juniors in Civil Engineering, embracing the selection and operation of electrical machinery, electric railways and other applications of electric motors. Two hours a week for the first term. Assistant Professor BETTS.

7. Electrical Engineering. A course in theoretical and applied electricity intended for Seniors in Mechanical Engineering. It embraces the selection and operation of electrical machinery, the location, construction, and operation of power plants, electric railways and transmission lines, the use of electric motors for driving machinery, and the working of storage batteries, elevators, hoists, and cranes. Three hours a week. Assistant Professor BETTS.

8. Electrical Design. A course for Seniors in Electrical Engineering, embracing calculation and design of electrical machinery and accessories, including switchboards, rheostats, instruments, and arrangement of same. One recitation period and one drawing period throughout the year. Assistant Professor BETTS, Mr. MORTIMER.

*Second Section. For Undergraduates and Graduates.*

21. Alternating Current Theory and Machinery. A course for Seniors in Electrical Engineering, covering the principles of single as well as polyphase currents, including study of machines, circuits, transformers, etc. Four hours a week, Senior year. Mr. MORTIMER.

22. Electrical Distribution. A course for Seniors in Electrical Engineering, covering the whole field of distribution of electricity for light and power. Text-book: Crocker's Electric Lighting; second volume, "Distribution System." Two hours a week. Assistant Professor BETTS.

23. Electrical Applications. A course for Seniors in Electrical Engineering, covering the more important applications of electricity, such as motive power, including elevators, hoists and machine drive, telephony, telegraphy, electro-metallurgy, etc. One hour a week. Assistant Professor BETTS.

24. Advanced Laboratory Work for Seniors in the Electrical Engineering Course. Covers test and experimental work with direct and alternating currents, tests of machines, circuits, transformers, circuits containing inductance and capacity, measurement of power in alternating current circuits, plotting of curves, etc. Text-book: Sever and Townsend's "Laboratory and Factory Tests in Electrical Engineering," with Foster's Electrical Engineer's Hand-book for general reference. Six hours a week. Assistant Professor BETTS, Mr. MORTIMER.

25. Inspection of Plants and Industrial Works. In the vicinity of Washington and Baltimore are a number of modern electric lighting and street railway plants, telephone exchanges, telegraph operating rooms, Government laboratories devoted to special work, etc., which afford students of Electrical Engineering an opportunity to familiarize themselves with nearly all types of apparatus in use. The visits are followed by class discussion based on written descriptions submitted by the students.

26. Electric Lighting and Illumination. A course for Seniors in Electrical Engineering covering the subject of electric lighting and illumination, including detailed study of different types of lamps, shades, arrangement of light sources, effect of walls, etc. Two hours per week first term. Assistant Professor BETTS.

27. Electric Railways. A course for Seniors in Electrical Engineering covering the theory and practice of modern, direct and alternating current railways. Two hours a week second term. Assistant Professor BETTS.

Juniors and Seniors in Electrical Engineering are required to attend the monthly meetings of the Washington Branch of the American Institute of Electrical Engineers held at the University.

#### *Third Section. Primarily for Graduates.*

41. Advanced Dynamo Design. This comprises the more rigid calculation of the magnetic circuit, the estimation of the electrical and mechanical losses, together with an exposition of the elements of mechanical design. Assistant Professor BETTS, Mr. MORTIMER.

42. Advanced Course in the Mathematical Theory of Alternating Currents. Assistant Professor BETTS, Mr. MORTIMER.



43. Advanced Course in Polyphase Currents. Assistant Professor BETTS, Mr. MORTIMER.

44. Advanced Laboratory Work, Alternating (including Polyphase) Current Apparatus. Assistant Professor BETTS, Mr. MORTIMER.

### GRAPHICS.

#### *First Section. Primarily for Undergraduates.*

1. Mechanical and Freehand Drawing. A general course embracing the care and use of instruments; orthographic and isometric projections; sections and intersections; curve plotting; sketching of simple machine details; freehand lettering; principles of working drawings. Six hours a week in the drawing-room. Mr. STARR.

2. Advanced Mechanical Drawing. A course in working drawings especially designed for Electrical and Mechanical Engineering students. Drawing-room rules and practice; conventional forms and standards; arrangement of views and sections; freehand shop-sketches; detailing from sketches, models and general drawings; proportioning by empirical formulas. Six hours a week in the drawing-room.

8. Descriptive Geometry. A study of the representation of lines, surfaces, and solids, and of their relations; tangencies, intersections, and developments; warped surfaces; shades and shadows; original construction problems. Two lectures and one drawing period per week. Mr. STARR.

10. Topographic Drawing. A general course in plotting, topographic symbols, and lettering to accompany the work in surveying. One drawing period per week. Mr. STARR.

#### *Second Section. For Undergraduates and Graduates.*

20. Graphic Statics. Principles and methods, including the construction and use of the force and equilibrium polygons; dead, live, snow, and wind loads; the graphic analysis of beams, girders, roof, and bridge trusses. Two lectures and one design period per week. Assistant Professor DUNSTAN.

#### *Third Section. Primarily for Graduates.*

40. Advanced Graphic Statics. A study of the graphical analysis of higher structures, with special reference to the method of influence lines. Assistant Professor DUNSTAN.

### MECHANICAL ENGINEERING.

#### *First Section. Primarily for Undergraduates.*

1. Mechanism. A course in the systematic study of the kinematics of machinery, in which mechanical movements are reduced to scientific

analysis. Carefully developed problems and diagrams of changes of position and speed in mechanisms are constantly used.

Some attention is given to the design of gear teeth, and valve gears for steam engines, and to the necessary theory for such design. Two lecture-recitation hours and two drawing hours per week during the Sophomore year.

4. Woodwork. Four hours per week in the shops during the Sophomore year.

5. Metal Work. Six laboratory hours per week during the Junior year. Electrical engineering students are given a modified course of three hours per week.

6. Engineering Drawing. This course provides for the application of the principles taught in the courses of Mechanism and Steam Engineering to specific problems. Practice is given in the design of valve gears and quick return motions, and in the determination of velocity diagrams for special engine and other linkages. There is also included the complete working drawings for a steam boiler. Six drawing hours per week during the Junior year. Assistant Professor WILLARD.

7. Machine Design. This course is an application of principles already acquired to problems in design, each student being required to complete every detail of the design undertaken.

The subjects taken as design problems are: The design of a boiler; permanent and temporary fastenings for machine parts; a crank; a large shaft with pulley and gear wheels, rotating and sliding pieces, etc. The constructive details and calculations are discussed and the limitations of theoretical and empirical formulas pointed out. Results are made to conform with experience and the best practice. One lecture-recitation hour and three drawing hours per week during the Senior year. Assistant Professor WILLARD.

9. Engineering Laboratory. A course of practical work in testing general engineering apparatus for efficiency. The work consists in indicating steam engines; determining the evaporative efficiency of boilers; tests on the strength of materials; measurement of the flow of water; gas-engine brake tests; refrigeration tests, and fuel value determinations. The student's observations and computations on any test are critically compared with those of the instructor. Six laboratory hours per week for the last half of the Junior year. Assistant Professor WILLARD, Assistant Professor BETTS.

10. Engineering Laboratory. This course is a completion of Course 9. Six hours a week during the Senior year. Assistant Professor WILLARD, Assistant Professor BETTS.

12. Elements of Steam Engineering. A course designed for the needs of Civil Engineering students. It deals briefly with valve gears, power plant accessories, thermodynamics, steam engines, steam pumps, and



steam boilers. Two lecture-recitation hours per week during the Senior year.

*Second Section. For Undergraduates and Graduates.*

20. Steam Engineering. The first half-year of the course deals with the principles of Thermodynamics; the properties of gases and vapors, especially steam; the flow of steam and other fluids, and the steam injector. The application of the above principles is discussed, and the simple, compound, and multiple expansion steam engines are studied.

The last half-year of the course is devoted to the study of steam boilers and power plants, and their accessories. A design, with plans and specifications, for a power plant of industrial proportions is required from each student. Three lecture-recitation hours per week during the Junior year. Assistant Professor WILLARD.

22. Internal Combustion Motors. This course will deal with the theory, design, and practice concerning gas, gasoline, and other engines. The work will include: (1) The fuels employed, their energy content, and its conversion into mechanical work; (2) the cycle of operations of the heat medium, with details of method of transforming heat into work, and types of motor; (3) the practical details of operation, mixing the charge, carburation, ignition, and governing; (4) the manipulation and practice, and a discussion of economy and performance from tests. The design of some simple type of motor will be completely worked out and discussed. Three lecture-recitation hours per week for the first half of the Senior year. Assistant Professor WILLARD.

23. Hydraulic Machinery. This course provides for an elementary study of hydraulic prime movers and pumping machinery. It includes a discussion of the theory and design of turbines and turbine blades for low and high heads, and turbine governors.

The course will also treat of impulse wheels; water motors of the piston type; machinery for the utilization of hydraulic pressure; hydraulic pressure pumps, and hydraulic presses; hydraulic tools; pumps operated by steam, electricity, or power; and high duty pumps and water meters. Two lecture-recitation hours per week for the first half of the Senior year.

25. Compression and Refrigeration Machinery. A course in which the principles of thermodynamics are applied to the commercial methods of compressing air and securing artificial refrigeration. The work will also include the mechanical principles concerned in the design of air compressors as well as the transmission of air in high-pressure piping.

The relative advantages of refrigeration systems will be discussed, as brought out in the theory and practice of actual machines using ammonia, air, and other gases, and fluids. Three lecture-recitation

hours per week in the last half of the Senior year. Assistant Professor WILLARD.

28. Industrial Management. A course dealing with the business systems of manufacturing establishments.

The work includes a study of the organization and relations of the various departments of an industrial establishment, both in the office and in the workshop. It also discusses the conduct of accounts, the methods of superintendence and of compensating labor, the determination of the costs of production, and the effect on costs of different systems of distributing indirect expenses. Two lecture-recitation hours per week for the last half of the Senior year. Assistant Professor WILLARD.

*Third Section. Primarily for Graduates.*

40. Advanced Gas-Engine Design, a short lecture course on multi-cylinder engines. Assistant Professor WILLARD.

41. Advanced Mechanical Engineering Laboratory, with fuel determinations, heat measurements, and gas analysis work. Assistant Professor WILLARD.

42. Advanced theory of governors, planimeters, and dynamometers for Steam Engineering. Assistant Professor WILLARD.

43. Advanced Engineering Drawing. Special problems. Assistant Professor WILLARD.

**ENGLISH.**

WILLIAM ALLEN WILBUR, A.M. .... Professor  
De Witt C. Croissant, A.B. .... Assistant Professor

*First Section. Primarily for Undergraduates.*

1. Rhetoric. A study of the principles of self-expression through language with lectures, recitations, and practice in composition. *Tu., Th., Sat.*, at 10. Assistant Professor CROISSANT.

2. Rhetoric. Parallel with Course 1. *Mon., Wed., Fri.*, at 4.50. Professor WILBUR.

NOTE—Credit for Course 1 or 2 is requisite for admission to any other course in English.

3. English Literature. Lectures on the development of the literature, with the reading of representative masterpieces. *Tu., Th., Sat.*, at 4.50. Assistant Professor CROISSANT.

4. Humanistic Studies in English Literature: "Euphues;" "Advancement of Learning," Book I; "Ecclesiastical Polity," Book I; "The Complete Angler;" "The Pilgrim's Progress;" "Religio Medici;" "Clarissa Harlowe;" "Evelina;" "Emma;" "The Prelude" (Wordsworth); "Endymion." *Mon. Wed., Fri.*, at 10. Professor WILBUR.



*Second Section. For Undergraduates and Graduates.*

22. Shakespeare. The Comedies. Not given in 1909-10. Professor WILBUR.

23. Shakespeare. The Tragedies. *Mon., Wed., Fri.*, at 1.30. Professor WILBUR.

The Temple edition of Shakespeare is recommended.

28. Old and Middle English. Old English is studied the first term, and Middle English the second term. Bright's Anglo-Saxon Reader, and Emerson's Middle English Reader. (Advanced work may be arranged for competent students.) *Mon., Wed., Fri.*, at 3.30. Assistant Professor CROISSANT.

32. Elements of Literary Criticism. Lectures on the general principles of literature, and on the literary types. Discussion of examples. *Mon., Wed., Fri.*, at 2.30. Assistant Professor CROISSANT.

*Third Section. Primarily for Graduates.*

40. History of the English Language. Development of the sounds and inflections with some reference to the other Germanic dialects. A reading knowledge of German and previous study of Old and Middle English are prerequisite. Assistant Professor CROISSANT.

44. Seminary in English Literature. Subject in 1908-09: "Idylls of the King." Subject in 1909-10: "The Ring and the Book." *Th.*, 3.30 to 5.30. Professor WILBUR.

**GEOLOGY AND MINERALOGY.**

GEORGE P. MERRILL, Ph.D. .... Professor  
TIMOTHY W. STANTON, Ph.D. .... Assistant Professor  
R. S. BASSLER, Ph.D. .... Assistant Professor

*First Section. Primarily for Undergraduates.*

1. Mineralogy. Crystallographic, descriptive, and determinative mineralogy. This course is designed with especial reference to minerals as rock constituents or segregated as ore deposits. It includes, therefore, a discussion of not merely the crystallographic and theoretical, but the practical side of the subjects as well. Whenever possible, it should be considered as introductory to the courses in either systematic or economic geology. *Tu., Th.*, at 5.40.

2. Geology. Systematic geology; dynamical, structural, and stratigraphical. The course is designed to form a part of a general-culture course, or a preliminary course for those intending to make a specialty of geology. It includes lectures, recitations, laboratory and field work so far as hours will permit. Paleontology is treated as a branch of

geology, having especial reference to stratigraphy and correlation. **Text-books:** Scott's Introduction to Geology, Merrill's Rocks, Rock Weathering, and Soils. *Mon., Fri.*, at 5.40.

*Second Section. For Undergraduates and Graduates.*

20. Economic Geology. The course covers the subjects comprised under: (1) Mineral veins and metalliferous deposits, their mode of occurrence, origin, and classification; (2) the ores of iron, copper, lead, zinc, tin, silver, gold, mercury, antimony, etc.; and (3) the non-metallic minerals as the coals and hydrocarbon compounds; salts and materials used in chemical manufactures; abrasive, refractory, and fictile materials, pigments, gems, ornamental stones, building stones, limes, cements, and mineral waters. **Text-books:** Weed's Translation of Beck's Nature of Ore Deposits; Merrill's Stones for Building and Decoration and the Non-metallic Minerals. *Mon., Fri.*, at 4.50.

21. Paleontology. A course in lecture and laboratory work on the biological and geological relations of the more important types of animals and plants, with especial reference to their value in stratigraphic geology. Two hours.

*Third Section. Primarily for Graduates.*

Advanced study in Geology, both systematic and applied, is arranged to cover two years.

40. Advanced Geology and Paleontology. The student in this first-year course may devote his time largely, if necessary, to perfecting himself in methods; to general work in the laboratory and in the field; to the examination of geological materials, and to familiarizing himself with the literature of the subject.

41. Advanced Paleontology and Stratigraphic Geology. A continuation of Course 21. Besides the study of paleontological methods, the student is expected to pursue some special line of investigation in order to fit himself for original research.

**GERMANIC LANGUAGES AND LITERATURES.**

HERMANN SCHOENFELD, Ph.D., LL.D.....Professor  
A. F. W. SCHMIDT, A.M.....Assistant Professor

*First Section. Primarily for Undergraduates.*

1. Elementary. The essentials of German grammar; translation of prose and poetry; composition and dictation. This course is open only to beginners, and the work done is equivalent to that of a two years' course in high schools and academies of good standing. *Tu., Th., Sat.*, at 11. Assistant Professor SCHMIDT.



2. Parallel with Course 1. *Tu., Th., Sat.*, at 4.50. Assistant Professor SCHMIDT.

3. Selected texts from the foremost contemporary authors will be read and one or more of the German classics carefully studied. The work in grammar and composition done in elementary German will be continued on a more advanced plane, with special emphasis on syntax, word-formation, and the relationship of German and English. This course is equivalent to the advanced German of the admission requirements, and it is open only to students who have passed Course 1 or 2. or have satisfied the admission requirement in elementary German. *Mon., Wed., Fri.*, at 11. Professor SCHOENFELD.

4. Parallel with Course 3, except that in the second term scientific German is read. *Tu., Th., Sat.*, at 5.40. Assistant Professor SCHMIDT.

5. Advanced course in German syntax; principal difficulties of the language; idioms; synonyms; extensive translations, of the best English prosaists into German; essays; selected advanced prose; classical reading and literature; German history. Special training for advanced students in the historical and economic departments. Open to students who have passed Course 3 or have satisfied the admission requirement in advanced German. *Mon., Wed., Fri.*, at 1.30. Professor SCHOENFELD.

6. Parallel with Course 5. *Mon., Fri.*, at 4.50. Assistant Professor SCHMIDT.

#### *Second Section. For Undergraduates and Graduates.*

20. German Literature in the first half of the nineteenth century; its social and political aspects; special study of Kleist, Uhland, Heine; the Austrian School; the Romanticists; classicism till Goethe's death; essays, lectures, and collateral reading. *Mon., Wed., Fri.*, at 10. Professor SCHOENFELD.

21. Goethe's Faust. *Tu., Th.*, at 10. Professor SCHOENFELD.

The intervening periods of Modern German Literature will be studied during the subsequent academic year.

#### *Third Section. Primarily for Graduates.*

40. German Literature in the sixteenth century. Braune's *Neudrucke Deutscher Literaturwerke*. Humanism and Reformation, with special reference to Italian and French influences and their historical basis. Original readings from the Humanists, Hans Sachs, Fischart, and Luther's works. The reformatory projects of Cardinal Nicolaus Cusanus and of Erasmus, Hutten, and Reuchlin. Professor SCHOENFELD.

41. German Literature in the twelfth and thirteenth centuries, with special regard to the Nibelungen lay, the Gudrun saga, Wolfram von Eschenbach. The lyrics of Walther von der Vogelweide. The gram-

matical aspects of the classics of the first period of bloom. Professor SCHOENFELD.

The other phases of older German literature will be studied in subsequent years, so that the general range of the history of German Literature may be covered every three years.

45. The emerging of the Germanic, Romance, and Slavic races in European History. The Migration of Peoples. The Evolution of European States to the Rise of the Hapsburg House. Cultural elements influencing the three predominating races of Europe. (Selections from the historical sources are read and interpreted.) Professor SCHOENFELD.

47. Gothic. Introduction to comparative Indo-European grammar. 2 hrs. Assistant Professor SCHMIDT.

48. Old High German. The development of the German language. 2 hrs. Assistant Professor SCHMIDT.

49. Old Norse. The Eddas. 2 hours. Assistant Professor SCHMIDT.

Only one of the foregoing three courses (47, 48, 49) is given at a time.

For notice of the Richard Heinzel Germanic Library, see page 13.

#### HISTORY.

CHARLES CLINTON SWISHER, Ph.D., LL.D.....	Professor
WILLIAM RAY MANNING, Ph.D.....	Assistant Professor
JAMES FREDERICK PEAKE, A.M.....	Assistant Professor
GEORGE MORTON CHURCHILL, A.M.....	Instructor
HANS FRED'K ARTHUR SCHOENFELD, A.B.....	Assistant
WILLIAM HAMILTON, Ph.D.....	Lecturer

#### *First Section. Primarily for Undergraduates.*

1. Mediæval History (350-1500 A. D.). The history of Europe from the invasion of the barbarian tribes to the opening of the sixteenth century with emphasis upon the principal institutions of the Middle Ages and the intellectual, social, and political conditions that gave rise to the Renaissance. Three hours throughout the year. *Mon., Wed., Fri.,* at 2.30. Assistant Professor PEAKE.

2. Modern European History (1500-1908). Beginning with a study of the conditions brought about by the Renaissance, this course will treat of the religious, political, and economic development of Europe since the beginning of the sixteenth century. Three hours throughout the year. *Mon., Wed., Fri.,* at 3.30. Assistant Professor PEAKE.

3. English History (55 B. C. - 1901 A. D.). The history of England from the invasion of Cæsar to the accession of Edward VII, with special emphasis upon the origin and growth of the constitution, the Reformation, the economic development of England and the expansion



of the British Empire. Three hours throughout the year. *Tu., Th., Sat.*, at 11.00. Assistant Professor PEAKE.

5. Mediæval History (350-1500 A. D.). Parallel with History I. Three hours throughout the year. *Mon., Wed., Fri.*, at 5.40. Assistant Professor PEAKE.

10. American Political History. A general survey of the field of American history, designed as a preparation for specialized work, or for students having only a limited time to devote to the subject. Lectures, text-books, and reports on assigned readings. Throughout the year. *Tu., Th.*, at 2.30. Professor SWISHER.

15. Ancient History. The Eastern nations and Greece to the period of the Roman Conquest. *Mon., Fri.*, at 10. Mr. SCHOENFELD.

16. Roman History. The political history of Rome from the establishment of the Republic to the time of Constantine the Great. Two hours. In alternate years. Not given in 1908-09. Mr. SCHOENFELD.

*Second Section. For Undergraduates and Graduates.*

23. European History, 1815 to 1870. Text-book, lectures, and reports on collateral reading. Besides the history of Europe proper much attention is given to matters of larger European interest, especially to colonization and international relations with reference to South America, Asia, and Africa. First half-year, *Mon., Wed., Fri.*, 5.40 p. m. Assistant Professor MANNING.

24. European History, 1870 to the present. Continuation of the preceding, studying the most recent developments with special attention to the forms of government, political questions, and current issues. Second half-year. *Mon., Wed., Fri.*, 5.40 p. m. Assistant Professor MANNING.

25. English Constitutional History. In alternate years. Not given in 1909-10. Two hours throughout the year. Assistant Professor MANNING.

30. American Constitutional History. A history of the origin and development of the Federal Constitution of 1789, with a study of its interpretation under the pressure of party issues, extending through the periods of division and reunion. Lectures, text-books, and collateral reading. Throughout the year. *Mon., Fri.*, at 4.50. Professor SWISHER and Mr. CHURCHILL.

31. American History since the Civil War. A brief survey of the Civil War followed by a study of the conditions resulting therefrom up to the close of the nineteenth century. Lectures and assigned readings. Throughout the year. *Tu., Th.*, at 3.30. Professor SWISHER.

33. Current History. A discussion of political questions of the present time with special reference to their origin and historical signifi-

cance. Lectures and examinations. Throughout the year. *Wed.*, at 11.00. Professor SWISHER.

*Third Section. Primarily for Graduates.*

42. History of Party Government. The rise and development of the party system and the influence of party leaders and party issues in the United States, based on a study of political platforms and campaign literature. Throughout the year. *Mon., Fri.*, at 3.30. Professor SWISHER.

43. American Colonial History. A history of the development of representative government under the provincial charters, with a detailed study of the social, economic, and political conditions leading to the Revolution. Given in 1910-11.

44. Seminary Work. The results of individual research upon assigned topics, and reviews of recent political and historical publications by graduate students will be discussed at the weekly meetings of the seminary of American History. Professor SWISHER and Mr. CHURCHILL.

45. Seminary in European History. Assistant Professor MANNING.

#### HYDRAULIC ENGINEERING.

HENRY L. ABBOT, LL.D.....Professor

*Third Section. Primarily for Graduates.*

40. Laws of flowing water, in natural channels, in pipes, and over weirs, with modes of measurement. Underground flow as sources of supply, with modes of estimation. Relation of rainfall to runoff. Regulation of river flow for purposes of navigation, and for protection against inundation. Slack-water navigation, including dams, canal locks, and waste weirs. Earth dams and river embankments, theory and modes of construction. Effect of forests upon water supply.

#### INTERNATIONAL LAW AND DIPLOMACY.

JAMES BROWN SCOTT, A.M., J.U.D.....Professor  
 ELLERY C. STOWELL, *Docteur en droit*.....Instructor  
 DAVID J. BREWER, LL.D.....Lecturer  
 JACKSON H. RALSTON, LL.B., LL.D.....Lecturer

*Second Section. For Undergraduates and Graduates.*

20. Principles of International Law. A detailed course in the nature, sources, and sanctions of International Law, based upon the study of cases and reports, supplemented by lectures and assigned readings. Two hours throughout the year. First half-year. *Mon., Wed., Fri.*, 8 a. m. Second half-year *Mon., Wed.*, 8 a. m. Professor SCOTT.



21. The Elements of Diplomacy. A study of the genesis and organization of the Department of State; the diplomatic service; diplomatic usage; negotiation of treaties; methods and traditional principles of our foreign policy. First half-year. *Tu., Th.*, 8 a. m. Professor SCOTT.

22. The Consular Service. A general survey of the rise, development, organization of the consular service; consular conventions; the rights, duties, and methods of procedure of consular officers; comparative study of modern consular systems. Throughout the year. *Tu., Th., Sat.*, 8 a. m. (section a), 11 a. m. (section b), Dr. STOWELL.

[Mr. Osborne will take charge of this course during part of the second half-year and give instruction in the preparation of consular trade reports and the prevention of the undervaluation of merchandise imported into the United States.]

23. Arbitrations and Arbitral Procedure. The history and development of international arbitrations; a discussion of the formation of arbitral tribunals, the composition of the tribunal, the arbitral award, etc. Throughout the year. *Wed.*, 9 a. m. Mr. RALSTON and Dr. STOWELL.

24. International Unions and their Administration. The Telegraphic Union, the Postal Union and other organizations for international regulation of common interests. Two hours, second half-year. Not given in 1909-10. Dr. STOWELL.

25. History of European Diplomacy, 1648 to 1814. Lectures, with collateral readings, investigations, and reports. Three hours, first half-year. *Mon., Wed., Fri.*, at 9 a. m. Assistant Professor MANNING.

26. History of European Diplomacy, 1814 to the present. A continuation of the preceding. Three hours, second half-year *Mon., Wed., Fri.*, at 9.00 a. m. Assistant Professor MANNING.

27. European Diplomacy in the Eastern Question. Relations of the European Powers with reference to the decline of the Ottoman Empire in the last two centuries and the creation of the independent Balkan States. In alternate years; given in 1909-10. Two hours, first half-year. *Mon. and Fri.* at 3.30. Assistant Professor MANNING.

28. European Diplomacy in the Far East. After a rapid review of European colonization and conquest in Asia a study is made of the intercourse of Western nations with China and Japan, and of the relations of the powers with reference to the new problems of the Far East. In alternate years; given in 1909-10. Two hours, second half-year. *Mon. and Fri.* at 3.30. Assistant Professor MANNING.

29. History of American Diplomacy. A general history of American foreign relations from the Treaty with France in 1778, with a special study of some of the more important questions of American foreign policy. A research course with readings from treaties and diplomatic

correspondence. Throughout the year. *Mon., Fri.*, 2.30 p. m. Professor SWISHER.

### MATHEMATICS.

HOWARD LINCOLN HODGKINS, Ph.D.....	Professor
PAUL NOBLE PECK, A.M.....	Assistant Professor
ASAPH HALL, JR., Ph.D.....	Professor
LOUIS COHEN, B.S.....	Assistant Professor

#### *First Section. Primarily for Undergraduates.*

2. Plane and Solid Geometry: Gore's Plane and Solid Geometry; *Tu., Th.*, at 5.40. Assistant Professor PECK.
3. Solid Geometry; Gore's Plane and Solid Geometry. *Mon., Wed., Fri.*, at 9, October and November. Assistant Professor PECK.
4. Algebra: Bowser's College Algebra. *Mon., Wed.*, at 4.50. Assistant Professor PECK.
5. Algebra: Bowser's College Algebra. *Mon., Wed., Fri.*, at 9, December to March. Assistant Professor PECK.
6. Solid Geometry: Gore's Plane and Solid Geometry. *Tu., Th., Sat.*, at 4.50, October and November. Assistant Professor PECK.
7. Plane Trigonometry: Gore's Plane and Spherical Trigonometry. *Mon., Wed., Fri.*, at 9, April and May. Assistant Professor PECK.
8. Algebra: Bowser's College Algebra. *Tu., Th., Sat.*, at 4.50, December to March. Assistant Professor PECK.
9. Trigonometry: Gore's Plane and Spherical Trigonometry. *Mon., Wed., Fri.*, at 10; October to December. Professor HODGKINS.
10. Plane Trigonometry. Gore's Plane and Spherical Trigonometry. *Tu., Th., Sat.*, at 4.50, April and May. Assistant Professor PECK.
11. Analytic Geometry: Nichols' Analytic Geometry. *Mon., Wed., Fri.*, at 10, January to May. Professor HODGKINS.
12. Trigonometry: Gore's Plane and Spherical Trigonometry. *Mon., Wed., Fri.*, at 5.40, October to December. Professor HODGKINS and Assistant Professor PECK.
14. Analytic Geometry: Plane and Solid; Nichols' Analytic Geometry. *Mon., Wed., Fri.*, at 5.40, January to May. Professor HODGKINS and Assistant Professor PECK.

NOTE—Courses 2 and 4 are intended for students who desire to review some parts of elementary algebra and plane geometry, in order to obtain that thorough and ready knowledge of these fundamental mathematical studies that is necessary for their proper use in other subjects. These classes are not intended for beginners, and only students who have studied elementary algebra and plane geometry are admitted.



*Second Section. For Undergraduates and Graduates.*

20. Differential and Integral Calculus: *Mon., Wed., Fri.*, at 4.50  
Professor HODGKINS.

21. Differential and Integral Calculus: *Mon., Wed., Fri.*, at 9. Pro-  
fessor HODGKINS.

*Third Section. Primarily for Graduates.*

40. Differential Equations. Professor HODGKINS.

41. Theory of Equations. Professor HODGKINS.

47. Thermodynamics and Fourier's Series. Assistant Professor  
COHEN.

48. Celestial Mechanics. Theory of central forces; theory of para-  
bolic and elliptic orbits. Lectures, with reading from the works of  
Gauss, Oppolzer and Moulton. Professor HALL.

**PHILOSOPHY, PSYCHOLOGY, AND EDUCATION.**

WILLISTON S. HOUGH, Ph.M. .... Professor

GEORGE LANSING RAYMOND, L.H.D. .... Professor

SHEPHERD IVORY FRANZ, Ph.D. .... Professor

WILLIAM CARL RUEDIGER, Ph.D. .... Assistant Professor

ELMER ELLSWORTH BROWN, Ph.D. .... Lecturer

GEORGE EDMUND MYERS, Ph.D. .... Lecturer

WILLARD S. SMALL, Ph.D. .... Lecturer

STEPHEN ELLIOTT KRAMER, A.M. .... Lecturer

**PHILOSOPHY.***First Section. Primarily for Undergraduates.*

1. The Elements of Logic. This course is introductory to the re-  
maining courses in Philosophy, and will include, in addition to the  
elements of Formal Logic, a study of the structure of knowledge, and  
of the functions of concepts in both theoretical and practical life.  
Text-book, with lectures. *Mon., Wed., Fri.*, at 9.00. First half-year.  
Professor HOUGH and Mr. JOHNSON.

2. Ethics, or the Moral Value of Conduct. The principal subjects  
considered will be: The growth of morality; the origin and authority  
of moral standards; the theories of the moral end; the nature of con-  
science; the system of the virtues; and the social aspects of morality.  
Text-book, with lectures. Second half-year. *Mon., Wed., Fri.*, at 9.00.  
Professor HOUGH and Mr. JOHNSON.

Courses 1 and 2 should be taken in sequence.

*Second Section. For Undergraduates and Graduates.*

20. History of Philosophy. The evolution of philosophic thought  
with special reference to the interpretation of human life. Eucken's

"The Problem of Human Life," with lectures. *Tu., Th.*, at 10.00. Professor HOUGH.

21. History of Philosophy. (Parallel with Course 20). *Tu., Th.*, at 4.50. Professor HOUGH and Mr. JOHNSON.

26. Æsthetics. Lectures on æsthetic theories, considered historically and philosophically, and their results as manifested in the different arts. First half-year. *Wed.*, at 4.50. Professor RAYMOND.

*Third Section. Primarily for Graduates.*

40. Elements of Metaphysics. Selected fundamental problems. Designed for graduates taking a major in Philosophy. One hour. Professor HOUGH.

46. Æsthetics. Seminary course. Æsthetics, considered philosophically, historically, and practically. Conferences, prescribed readings, and thesis. Professor RAYMOND.

PSYCHOLOGY.

Course 1 or Course 2 must precede all Second Section courses in Psychology. Students intending to pursue advanced courses in Psychology, or courses in Education, are recommended to take Course 1 (or Course 2) in their Sophomore year.

*First Section. Primarily for Undergraduates.*

1. General Psychology. This course is designed as a comprehensive introduction to the principles and methods of scientific psychology. Text-book, lectures, and reference-work. *Mon., Wed., Fri.*, at 10.00. Professor HOUGH.

2. General Psychology. (Parallel with Course 1.) Designed specially for teachers. *Tu., Th.*, at 3.30. Professor HOUGH.

3. Elements of Psychology. An introductory course presenting an outline of the main facts about the mind. Designed for first-year students, for special students, and for teachers who are unable to take a longer course. Lectures, with assigned reading. *Th.*, at 4.50. Given in 1908-09; not given in 1909-10. Professor HOUGH.

(Courses 41 and 42 will be given in the psychological laboratory of the Government Hospital for the Insane, which is specially well equipped for psychological teaching and research.)

Educational Psychology. (See Course 41 under "Education.")

*Second Section. For Undergraduates and Graduates.*

20. Comparative Psychology. The evolution of mind in the animal series and in man, including reference to the contributions of race psychology and abnormal psychology. Text-book, lectures, and reports



upon assigned reading. *Tu., Th.*, at 10. Given in 1908-09; not given in 1909-10. Professor HOUGH.

23. Experimental Psychology. An introductory laboratory course. Experiments on sensation, movement, effects of practice, fatigue, attention, memory, association, emotional manifestations, etc. Two two-hour periods. Hours to be arranged. Assistant Professor RUEDIGER.

24. Abnormal Psychology. A course in which variations from normal mental processes and their bearing upon problems of normal psychology are discussed. The topics considered are adapted to the needs of the students electing the course. During the year 1908-09 the subject of the course was feeble-mindedness and delinquency. Lectures, demonstrations, and assigned readings. One two-hour period each week. Professor FRANZ.

(This course will be given at the Government Hospital for the Insane.)

*Third Section. Primarily for Graduates.*

40. The Principles of Psychology. A seminar course for the advanced study of fundamental problems. Designed for graduates taking a major or minor in Psychology. Open to undergraduates who obtain the permission of the instructor. *Mon.*, 4.30 to 6. Counts as two hours. Professor HOUGH.

41. Experimental Psychology. A laboratory course, treating special topics in psychology, such as memory, time of mental processes, movement, sensation, emotion, abnormal psychology, and physiological psychology. The topics selected for consideration in any year will be determined by the need of the students electing the course. Open only to students who have taken or are taking the course in general psychology, and the introductory course in experimental psychology, or their equivalents. Hours to be arranged. Professor FRANZ.

42. Experimental Psychology. A research course. Open only to students who have taken Courses 23 and 41, or their equivalents. Students will take up topics for original investigation in some field of experimental, physiological, comparative, or pathological psychology. Hours to be arranged. Professor FRANZ.

### EDUCATION.

Course 1 in Psychology must precede, or be taken parallel with, the first course in Education, but normal school graduates, and teachers of experience, may satisfy this requirement by taking Course 2 in Psychology either before or in conjunction with their first course in Education. Students may begin their work in Education with either the Principles and Psychology of Education (Course 20 or 21), or the History of Education (Course 22); but one or the other must precede, or be taken parallel with, all other courses in Education. Candidates

for the Teacher's Diploma are required to complete before graduation Courses 20 or 21, 22, 23 or 24, 27 or 30, and 31. Students who are permitted to substitute Course 21 for Course 20 may also substitute an elective, counting 2 units, for Course 31.

*Second Section. For Undergraduates and Graduates.*

20a. Principles of Education. The bases, aims and values of education as revealed by biological, psychological, sociological and ethical principles. First half-year. *Mon., Wed., Fri.*, at 9.00. Assistant Professor RUEDIGER.

20b. Educational Psychology or Principles of Teaching. The fundamental principles underlying the teaching process as revealed by psychology and logic. Second half-year. *Mon., Wed., Fri.*, at 9.00. Assistant Professor RUEDIGER.

21. The Principles and Psychology of Education. (Parallel with Course 20.) Designed for normal school graduates and for teachers in service. *Tu., Th.*, at 4.50. Assistant Professor RUEDIGER.

22. History of Education. The contributions of Plato, Aristotle, Bacon, Comenius, Locke, Rousseau, Pestalozzi, Froebel, Spencer, Hall, Dewey, and others. A general course, based on Monroe's *Brief Course in the History of Education*, and supplemented by lectures, assigned reading, and reports. *Sat.*, 10 to 12. Dr. MYERS.

23. Child Study. The psychology, physiology, and hygiene of childhood and adolescence with special reference to the problems of teaching. Kirkpatrick's *Fundamentals of Child Study*, supplemented by lectures, assigned reading and reports. *Sat.*, 10 to 11. Dr. SMALL.

24. School Sanitation and Hygiene. A survey of the relations of education and health, including: The function of the school in promoting health; physical examination of children; medical inspection; physical education; diseases and defects incident to school life; the organization of instruction as related to fatigue; defective children; schoolhouse construction and sanitation. Lectures, reference work, and reports. *Sat.*, 11 to 12. Dr. SMALL.

25. Secondary Education. This course considers the history, nature and function of secondary education, foreign secondary education, recent tendencies, adolescence, courses of study, and the educational value, essential content, and methods of presentation of the high school branches. *Mon., Fri.*, at 3.50. Assistant Professor RUEDIGER.

26. Elementary Education. The application of the principles of education and psychology to the elementary school; modern subjects and recent tendencies. The major portion of the time will be devoted to a discussion of the aims and methods pertaining to the elementary school subjects. Lectures, assigned readings, and reports. *Wed.*, at 3.50. Assistant Professor RUEDIGER.



27. School Administration. A general course including consideration of the different types of school control and support; political and administrative elements in the conduct of schools; relative functions of school board, superintendent and teachers; the budget; school buildings; grading; examinations; promotions; curricula; compulsory education and child labor; and extension of the work of schools. Lectures, assigned readings, reports, and discussions. *Wed.*, at 4.50. Given in 1908-09; not given in 1909-10. Dr. UPDEGRAFF.

28. Educational Theory. Five lectures comprising an introduction to the chief divisions of a general theory of education, and ten lectures on the principal epochs in the development of educational theory. *Fri.*, at 4.50. First half-year. First five lectures, Commissioner BROWN. Ten lectures, Professor HOUGH.

29. Industrial education. Definition of technical, manual, industrial and trade training, and their inter-relations. Brief historical survey of the industrial aspects of primitive, oriental, Greek, Roman, and Mediæval education. Full discussion of the present status of industrial training in Germany, France, England, and America. Present tendencies, problems and dangers. Lectures, assigned readings and reports. *Mo.*, at 4.50. Given 1908-09; not given 1909-10. Dr. MYERS.

30a. Class Management. A consideration of the practical problems of the classroom, including economy in class management, attendance, discipline, physical conditions, the daily program, and the technique of class instruction. Class discussions, lectures, and assigned readings. *Wed.*, 4.50. First half-year. Mr. KRAMER.

30b. School Supervision. A course involving the study of the relations of teachers to supervising officers, the principles of helpful criticism, the testing of class work, the conducting of teachers' meetings, and the rating of teachers. Class discussions, lectures, and assigned readings. *Wed.*, 4.50. Second half-year. Mr. KRAMER.

31a. Observation. Both the application of general educational principles and the methods of teaching particular subjects are systematically observed and discussed. First half-year. Two hours. Hours to be arranged. Assistant Professor RUEDIGER.

31b. Practice. The student-teacher is led in particular to form the connection between theory and practice and to establish right teaching habits. Second half-year. Two hours. Hours to be arranged. Assistant Professor RUEDIGER.

(Course 31 is open only to students registered in Teachers College, or to graduates taking a major or minor in Education.)

32. Adolescence. A consideration of the psychology of adolescence with special reference to the problems of secondary education. Lectures, readings, and special topics. One hour. (Not offered in 1909-10.) Dr. SMALL.

33. Foreign School Systems. A study of the school systems of Germany, England, and France, with a consideration of their bearing upon education in the United States. Lectures, assigned reading and discussions. Two hours. Second half-year. Not given in 1909-10.

*Third Section. Primarily for Graduates.*

40. Educational Theory. A research course in the history of educational doctrines with special reference to the development of philosophic thought and of general culture. Designed as an aid in the preparation and criticism of thesis material. Two hours. Professor HOUGH.

41. Research in Educational Psychology. Methods of investigation, followed by a review of typical studies. Texts: Thorndike's *Mental and Social Measurements*, monographs and periodical literature. Two hours. Hours to be arranged. Assistant Professor RUEDIGER.

**PHYSICS.**

EDWARD B. ROSA, Ph.D.....	Professor
EDGAR BUCKINGHAM, Ph.D.....	Lecturer
PERLEY G. NUTTING, Ph.D.....	Assistant Professor
EVERETT W. VARNEY, A.B.....	Instructor
.....	Instructor

*First Section. Primarily for Undergraduates.*

1. General Physics. A recitation and lecture course, embracing the fundamental principles of mechanics, sound, heat, light, and electricity. The lectures are illustrated by experiments. This is a required course for Sophomores in Engineering, and may be elected by the general student who has had a college course in trigonometry. *Mon., Wed., Fri.*, at 4.50.

2. Laboratory Physics. A selected series of experiments, mainly quantitative. Two two-hour periods. *Tu., Th.*, at 10.

3. Introductory General Physics. A lecture and recitation course, similar to Course 1, but less mathematical, and planned with reference to the needs of the general student. *Mon., Wed., Fri.*, at 1.30.

*Second Section. For Undergraduates and Graduates.*

21. Heat. A lecture and laboratory course, based on Preston's Theory of Heat and Poynting and Thomson's Heat. Three periods. *Mon., Wed., Fri.*, at 5.40.

22. Light. A lecture and laboratory course, based on Preston's Theory of Light and Schuster's Theory of Optics. Three periods. *Mon., Wed., Fri.*, at 11.



*Third Section. Primarily for Graduates.*

40. Light. Advanced study, experimental and mathematical, of some one branch of the subject.

41. Absolute Electrical Measurements. A course of lectures on the theory and practice of fundamental electrical measurements, including the more important methods for the measurement of resistance in absolute units, the absolute measurement of current and electromotive force, the determination of the ratio of the two systems of electrical units, the theory of various forms of condensers, the calculation of inductances from their dimensions, the experimental determination of capacities and inductances, and other important problems in electrical measurements. A brief history of the present electrical units and an account of the classical investigations by which their values have been determined will also be given. Professor ROSA.

42. Advanced Laboratory Work in Electrical Measurements. A course in advanced laboratory work in electrical measurements, for those who are qualified to undertake it. This may include a considerable range of work, or it may be research work on some important single subject. The amount and character of the work and the time and place at which it shall be done will be determined for each case separately. Professor ROSA.

43. Thermodynamics. An introduction to the general principles of the subject will be followed by applications to Physics and Physical Chemistry. Students should be familiar with Preston's "Theory of Heat" up to Thermodynamics, or with its equivalent. The course will be conducted by lectures with collateral reading. Dr. BUCKINGHAM.

44. Theory of Electricity. The course will be conducted by lectures with collateral reading in Maxwell, Heaviside, and Gray. Students must have had at least two years' training in Calculus, and be familiar with the ordinary phenomena of electrodynamics. Dr. BUCKINGHAM.

45. Spectroscopy. An experimental study of the flame, arc, spark, and vacuum tube spectra of the chemical elements; variations in spectra produced by varying excitation; spectra of mixed gases and alloys; identification of elements; photography of spectra. Assistant Professor NUTTING.

**POLITICAL SCIENCE.**

HOWARD LEE MCBAIN, Ph.D.....	Assistant Professor
ERNEST G. LORENZEN.....	Professor
JOHN M. HARLAN, LL.D.....	Lecturer
ALPHEUS H. SNOW, A.B., LL.B.....	Lecturer
PAUL CHARLTON .....	Lecturer
JACKSON H. RALSTON, LL.B., LL.D.....	Lecturer
.....	Instructor

*Second Section. For Undergraduates and Graduates.*

20. The American Governmental System. An introductory course for the study of federal government in the United States, discussing the fundamental nature of the union and the relation of the national government to the States, the territories, and the outlying possessions. First half-year. *Mon., Wed., Fri.*, 4.50 p. m. Assistant Professor MCBAIN.

21. Actual American Government. A continuation of the preceding course, with emphasis upon the actual organization and operation of the national government. A study of Congress and the executive departments in action, and of the organization and control of political parties. Second half-year. *Mon., Wed., Fri.*, 4.50 p. m. Assistant Professor MCBAIN.

22. Comparative State Government in the United States. A comparative study of the constitutions of the States of the American Union; a study of the powers, organization, and operation of State governments; the problem of local government in the United States; modern tendencies toward centralization of administration in the States. First half-year. *Tu., Th., Sat.*, 10 a. m. ———.

23. Municipal Government in the United States. A study of the organization and administration of city government in the United States with some comparative study of European conditions. The growth of cities; development of the legal position of the city; powers and liabilities of municipal corporations; municipal problems, such as those relating to local transportation, police, light and water supply, charities, education, municipal ownership of public utilities. First half-year. *Mon., Wed., Fri.*, 11 a. m. Assistant Professor MCBAIN.

24. Municipal Government in Europe. The legal position of the European city; its powers and liabilities; governmental organization and methods of administration; municipal problems in Europe and how they have been met; municipal ownership. Second half-year. *Mon., Wed., Fri.*, 11 a. m. ———.

25. The Elements of Political Science. The origin, nature, and functions of the State; the fundamental political concepts such as the State, sovereignty, government, law, civil liberty; the forms of State; the forms of government; modern political theories. Two hours, first half-year. *Thu.*, 4.50 to 6.30 p. m. Assistant Professor MCBAIN.

26. American Political Theories. A course discussing the development of American political ideas. Political theories of the colonial, the revolutionary, and the formative periods; the growth of democratic ideas; political theories of the slavery and Civil War controversies; modern political theories in America. First half-year. *Mon., Fri.*, 11 a. m. ———.



27. American Constitutional Law. An outline of the principles of the Federal Constitution as established and developed by judicial interpretation. Throughout the year. *Mon., Fri.*, 4.50 p. m. Mr. JUSTICE HARLAN.

28. Comparative Constitutional Law. A comparative study of the constitutions and governmental forms of the United States, Great Britain, France, Germany, and Switzerland as representing types of modern constitutional governments; some comparison these types with constitutional forms in other States. Two hours, second half-year. *Thu.*, 4.50 to 6.30. Assistant Professor McBAIN.

*Third Section. For Graduates.*

40. Administrative Law. A study of the organization of national and State administrative systems and of the law governing official relations. First half-year. *Mon., Wed.*, 9 a. m. ———.

41. Private Rights and Immunities under the Constitution. An advanced course in Constitutional Law—a study of cases showing the development of federal protection of private rights and immunities as against the powers of the States. Remedies against the powers of the States; limitations on the powers of the States to deprive persons of life and liberty, to define and regulate the uses of property, to impose taxes, to impair the obligation of contracts, etc. Two hours, second half-year. *Tu.*, 4.50 to 6.30 p. m. Assistant Professor McBAIN.

42. Colonial Government and Administration. A study of the past and present colonial systems of the world. Colonial institutions and methods of legislation; administration of finance, commerce, industrial development, labor, education in the colonies. The organization and administration of the insular possessions of the United States. First half-year. *Tu.*, 9 a. m. Mr. SNOW. Second half-year. *Tu., Th.*, 9 a. m. Mr. CHARLTON.

43. Roman Law. A comparison of some of the fundamental conceptions of the law of Rome and of the modern Civil Law with those of the Roman Law. Open only to students who have had instruction in American Law. Two hours, first half-year. (Hours to be announced on Law Schedule.) Professor LORENZEN.

44. Conflict of Laws or Private International Law. A course dealing with private law in its international aspects. Among the topics treated are marriage and divorce, guardianship, wills and the administration of estates, bankruptcy, and foreign judgments. Open only to students who have had instruction in the fundamental subjects of American Law. Four hours, second half-year. (Hours to be announced on Law Schedule.) Professor LORENZEN.

45. Spanish-American Law. Giving an outline of the legal systems prevailing in Central and South America, in Cuba, Porto Rico, and the

Philippine Islands, with emphasis upon their private laws, both civil and commercial, and their system of procedure. Open only to students who have had instruction in Roman law. Lectures, assigned reading, and reports. Two hours, second half-year. (Hours to be announced on Law Schedule.) Professor LORENZEN.

46. Seminar in Political Science. Students competent to undertake advanced work along special lines are admitted to this Seminar for the presentation and discussion of essays on topics belonging to the field of political science proper. Assistant Professor MCBAIN.

### PREVENTIVE MEDICINE.

GEORGE M. STERNBERG, M.D., LL.D.....Professor

#### *Third Section. Primarily for Graduates.*

49. Food preservatives in relation to the Public Health. The hygienic results of milk sterilization. The hygienic results of filtration of municipal water supplies. The use of chemical agents for the sterilization of water supplies, municipal or domestic. The results of legislative and philanthropic efforts to arrest the progress of tuberculosis in the United States, and especially in the principal cities.

### ROMANCE LANGUAGES AND LITERATURES.

GEORGE N. HENNING, A.M.....Professor  
WILLIAM WEBB SNIFFIN, A.M.....Assistant

### FRENCH.

#### *First Section. Primarily for Undergraduates.*

1. Grammar, composition, drill in pronunciation. Fraser and Squair's French Grammar. Translation and reading of nineteenth century fiction and history. (400-500 pages.) For beginners. *Mon., Wed., Fri.*, at 10.00. Professor HENNING.

2. Parallel with Course 1. *Tu., Th., Sat.*, at 5.40. Mr. SNIFFIN.

3. Translation, reading, grammar, composition Fraser and Squair's French Grammar. *Mérimée, Colombar*; other texts to be announced. Open to students who have passed in French 1 or 2, or have fulfilled the admission requirements in Elementary French. *Mon., Wed., Fri.*, at 11. Professor HENNING.

4. Parallel with Course 3. *Tu., Th., Sat.*, at 4.50. Mr. SNIFFIN.

6. General survey of French literature, seventeenth to nineteenth centuries. Translation, collateral reading and reports thereon, lectures on literature and the history of the language, composition. Warren's French Prose of the Seventeenth Century, Canfield's French Lyrics, Lacombe's *Petite Histoire du peuple français*, Cran's *la Société fran-*



*çaise au XVII<sup>e</sup> siècle*, Corneille, Molière, La Fontaine, Racine, Saint-Simon, Montesquieu, Marivaux, Voltaire, Rousseau, Beaumarchais, Hugo, Musset, Michelet, Balzac, Augier, Maupassant, Pailleron, A. French, Bornier, Daudet. Open to students who have passed in Course 3 or 4, or have fulfilled the admission requirements in Advanced French. *Mon., Wed., Fri.*, at 2.30. Professor HENNING.

*Second Section. For Undergraduates and Graduates.*

Courses in this group are open to students who have passed in Course 6, or who otherwise satisfy the instructor of their fitness to take them.

21. Seventeenth century literature; history, philosophy, criticism, memoirs, letters, eloquence, drama, fiction, poetry. Balzac, Descartes, Pascal, La Rochefoucauld, La Bruyère, Boileau, Saint-Simon, Mme. de Sévigné, Bossuet, Corneille, Racine, Molière, Fénelon, Malherbe, La Fontaine, etc. Translation, collateral reading and reports thereon, lectures on literature and history. Thesis. Not given in 1909-10.

23. Eighteenth century literature; history, philosophy, criticism, letters, drama, fiction, poetry. Montesquieu, Diderot, Rousseau, Voltaire, Marivaux, Destouches, Sedaine, Beaumarchais, Bernardin de St. Pierre, André Chénier, etc. Translation, collateral reading and reports thereon, lectures on literature and history. Thesis.

25. Nineteenth century literature; history, philosophy, criticism, memoirs, travels, fiction, drama, lyric poetry. Thierry, Michelet, Mignet, Thiers, Taine, Saint-Beuve, Brunetière, France Lemaitre, Renan, Gautier, Mme. de Staël, Chateaubriand, Hugo, George Sand, Mérimée, Balzac, Flaubert, Daudet, Maupassant, Loti, Musset, Dumas fils, Augier, Maeterlinck, Rostand, Lamartine, Vigny, the Romantic poets, the Parnassians, the Symbolists, etc. Translations, collateral reading and reports thereon, lectures on literature and history. Thesis. *Mon., Wed., Fri.*, 1.30. Professor HENNING.

*Third Section. Primarily for Graduates.*

43. Old French and philology. Darmesteter's Historical French Grammar. *La Chanson de Roland*, etc. Professor HENNING.

47. The comedies of Molière. Professor HENNING.

50. The Romantic Movement in France with some reference to the same movement in England and Germany. Professor HENNING.

Other courses may be arranged for competent graduates.

SPANISH.

*First Section. Primarily for Undergraduates.*

1. Grammar, composition. Hills and Ford's Spanish Grammar. Translations and reading of nineteenth century fiction and drama. Open

to first-year students only by permission of the instructor. Open only to students who have had at least one year of French or Latin. Students may not elect Spanish and Italian in the same year. *Tu., Th., Sat.* at 10. Professor HENNING.

*Second Section. For Undergraduates and Graduates.*

20. Translation and reading of nineteenth and seventeenth century works; history, fiction, drama, lyric poetry. Lectures on literature and history. Open to students who have passed in Course 1 with at least the grade of C, or who otherwise satisfy the instructor of their fitness to take the course. Not given in 1909-10. Two hours.

ITALIAN.

*First Section. Primarily for Undergraduates.*

1. Grammar, composition. Grandgent's Italian Grammar, Bowen's Italian Reader. Translation and reading of nineteenth century fiction and drama. Open to first-year students only by permission of the instructor. Open only to students who have had at least one year of French or Latin. Students may not elect Italian and Spanish in the same year. Not given in 1909-10.

FEES.

ARTS AND SCIENCES.

1. Matriculation fee (payable once).....	\$5
2. Annual library fee.....	2
3. Tuition fee per annum for graduate courses leading to the degrees of M.A., M.S., C.E., E.E., M.E., Jur.D., and Ph.D. ....	150
Where candidates for higher degrees exceed the minimum time limit they may be liable for an additional charge of \$40 per annum for each topic pursued by them.	
4. Tuition fee per annum for each hour per week of undergraduate courses leading to the degrees of B.A. and B.S., and for graduate courses leading to the degree of M.Dip. ....	10
5. Late registration fee in the case of students registering for the first term after October 20, or for the second term after February 20, except for courses which do not begin with the terms .....	2
6. Tuition fee for each year of the regular four-year courses in the College of Engineering.....	150



7. Laboratory courses:	
Material fees:	
Mineralogy .....	5
Chemistry 2, 3, and 7; Electrical Engineering; Physics, each .....	10
Chemistry, 4 (Assaying).....	20
Chemistry, except 2, 3, 4 and 7, each.....	25
Deposits to cover breakage of apparatus issued, the amounts paid in excess of breakage to be returned:	
Chemistry, 2, 3, and 7, each.....	10
Chemistry, except 2, 3, 4, and 7, each.....	25
8. Fee for graduation .....	10
9. Tuition fee for each of the following special courses, not taken by candidates for a degree.....	40
Architecture, Courses 37 and 38.	
Chemistry, Course 4 (Assaying).	
10. In determining tuition fees, four hours of laboratory work in Architecture, three hours of laboratory work in Chem- istry, and two hours of laboratory work in other subjects count as one hour.	
11. Fee for a certificate under the seal of the University.....	2

No change will be made in the fees fixed at the time of registration except in the case of a change in or withdrawal from a course of study, and then only upon notice in due form and from the end of the current quarter session when such change or withdrawal shall be approved. Applications for permission to change a course of studies or for the granting of a withdrawal should be made on the prescribed form to be obtained from the Secretary and will be received only at the end of a quarter session.

#### PAYMENT OF FEES.

All fees are to be paid to the Treasurer. Tuition fees are payable quarterly in advance. Matriculation, library, and laboratory fees are payable in full in advance.

#### BOARD AND ROOMS.

A register of approved boarding houses is kept by the Treasurer. Accommodations cost from \$25 to \$40 a month. Board and rooms for woman students are offered in the Woman's Building at \$30 to \$35 per month. Woman students may apply to the Dean of Women.

HONORABLE DISMISSION.

An honorable dismission will always be issued to any student who has been granted a withdrawal from the University in good standing.

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For catalogues, application blanks, and further information, address

THE SECRETARY,

*The George Washington University,  
Washington, D. C.*



## Professional Departments.

### DEPARTMENT OF LAW.

#### FACULTY.

CHARLES WILLIS NEEDHAM, LL.D.....	PRESIDENT OF THE UNIVERSITY
WILLIAM REYNOLDS VANCE, Ph.D., LL.B.....	Professor of Law, Dean
JOHN M. HARLAN, LL.D.....	Professor of Law
MELVILLE CHURCH, LL.M.....	Professor of the Law of Patents
WALTER C. CLEPHANE, LL.M.....	Professor of Law
EDWIN C. BRANDENBURG, LL.M.....	Professor of Law
ARTHUR PETER, LL.M.....	Professor of Law
†HENRY P. BLAIR, LL.M.....	Professor of Law
STANTON J. PEELLE, LL.D.....	Professor of Law
JOHN PAUL EARNEST, A.M., LL.M.....	Professor of Law
ERNEST G. LORENZEN, Ph.B., LL.B., J.U.D.....	Professor of Law
JAMES BROWN SCOTT, M.A., J.U.D.....	Professor of Law
EDWARD SAMPSON THURSTON, A.M., LL.B.....	Professor of Law
WENDELL PHILLIPS STAFFORD, LL.D.....	Professor of Law
JOSIAH A. VAN ORSDEL, LL.D.....	Professor of Law
JULIEN CHARLES MONNET, M.A., LL.B.....	Professor of Law
JOHN WILMER LATIMER, LL.B.....	Instructor in Practice
ALFRED BUHRMAN .....	Clerk of the Moot Court
HARRY C. DAVIS.....	Secretary

#### COURT OF APPEALS.

WILLIAM F. MATTINGLY, LL.D.....	Chief Justice
JOHN B. LARNER, LL.D.....	Associate Justice
A. A. HOEHLING, JR., LL.M.....	Associate Justice

#### GENERAL STATEMENT.

This Department, established in 1865, is the oldest school of law in the city of Washington. Its course of instruction for the degree of Bachelor of Laws, originally requiring but two years, was gradually expanded, until, in 1898, in accordance with the recommendation of the American Bar Association, it was increased to three years. The Faculty has also shown a gradual increase in numbers commensurate with the expansion of the course and the growing number of students in attendance. Beginning with 1903, the Board of Trustees adopted the

† Absent on leave.

policy of placing most of the important topics of substantive law under the charge of trained professional teachers giving their whole time to the work of legal instruction. Of these there are now five. Those branches of the law connected with practice will continue to be under the charge of professors who are actively engaged in the administration of the law either at the Bar, or on the Bench.

In 1877 a year of graduate work, leading to the degree of Master of Laws, was added to the course of instruction offered, and in 1905 a special graduate course of three years, leading to the degree of Doctor of Jurisprudence, was established. Work for this degree is now carried on by members of the Law Faculty under the general direction of the University Faculty of Graduate Studies. A special course in Patent Law was added in 1895.

In June, 1898, an ordinance was adopted by the Board of Trustees formally establishing as a separate department of the University the Department of Jurisprudence and Diplomacy. This Department was opened on November 15, 1898.

In 1904, by the authority of the Board of Trustees, a new adjustment of graduate work in the University was made, resulting in the establishment of the Departments of Law and of Politics and Diplomacy (now called the College of the Political Sciences), the former embracing the undergraduate course in municipal law and graduate courses in the broader fields of general law, and the latter graduate and undergraduate courses in the political sciences, special attention being given to diplomacy.

#### SEPARATE COURSES FOR ALL-DAY AND AFTERNOON STUDENTS.

Since 1903 the work of the Law School has gradually been transferred from the late afternoon hours to the forenoon, and at the present time the lectures offered to all-day students are largely confined to the earlier part of the day. To these students is offered a course consisting of fourteen hours a week for three years, leading to the degree of Bachelor of Laws (LL.B.).

To meet the needs of those students whose employment in the Government service, or elsewhere, prevents their attendance before 4.30 in the afternoon, an afternoon course is given, consisting of ten hours a week for three years and leading to the degree of Bachelor of Law (B.L.). This course offered to afternoon students satisfies the requirements of the Association of American Law Schools, of which this school is a member.\*

\* This distinction between the degrees of LL.B. and B.L. is in accordance with the recommendation of the Committee on Legal Education of the American Bar Association. See Vol. 31, Reports American Bar Association (1907) p. 514.



Students who have received the degree of B.L. may, upon completing a fourth year of twelve hours a week in the afternoon, receive the degree of LL.B.

#### LOCATION.

All classes in the Department of Law are held in the Law Building, situated on H street, adjoining the main University building, at the corner of Fifteenth street. This hall, dedicated on January 3, 1899, was especially designed for the work of this Department. It is commodious and well equipped with lecture-rooms, Moot Court rooms and offices, and contains the law library, with a conference-room adjoining.

#### ACADEMIC YEAR.

The academic year extends through more than eight months, beginning on the last Wednesday in September and ending on the second Wednesday in June, and is divided into two half-years, the second half-year beginning on the first day of February. The session of 1909-10 begins on Wednesday, September 29, and closes Wednesday, June 8. Since most of the courses given during the first half-year are completed before the beginning of the second half-year, it is possible for a student to enter on the 1st of February of any year and be graduated three years from that date, receiving his degree at the Winter Convocation, held on February 22, of each year.

Lectures begin promptly on the first day of the term, and students applying for admission at a later day will be admitted only upon showing good cause for the delay and by special action of the Faculty.

#### ADMISSION.

##### I. FOR THE DEGREE OF BACHELOR OF LAWS (LL.B.).

Applicants for admission as candidates for the degree of Bachelor of Laws must be at least eighteen years of age and must have had educational training sufficient to satisfy the entrance requirements of the Department of Arts and Sciences of the University. In order to satisfy these requirements, which are set out at length in the General Catalogue of the University, students must present credits aggregating 15 units, which are broadly equivalent to a four years' high school course. Applicants for admission on certificate should secure formal certificates setting forth the credits claimed, and present these certificates attached to their application forms. All applications for admission should be addressed to the Secretary of the University, who will, upon request, furnish proper blanks and detailed information as to entrance examinations.

*Advanced Requirements.* The requirement of two years of college work for admission to regular standing, heretofore announced to take

effect at the opening of the session 1909-1910, is postponed until such time as shall hereafter be fixed by the Law Faculty.\*

2. FOR THE DEGREE OF BACHELOR OF LAW (B.L.).

Applicants for admission as candidates for this degree must satisfy the same requirements as those demanded of candidates for the LL.B. degree.

3. FOR THE DEGREE OF MASTER OF LAWS.

Candidates for the degree of Master of Laws must be at least twenty-one years of age and hold the degree of Bachelor of Laws from an institution substantially complying with the requirements of the Association of American Law Schools, of which this school is a member.

4. FOR THE DEGREE OF MASTER OF PATENT LAW.

Only those students who are graduates of an approved law school or members of the bar in good standing will be admitted as candidates for the degree of Master of Patent Law.

5. FOR THE DEGREE OF DOCTOR OF JURISPRUDENCE.

No student will be admitted as a candidate for the degree of Doctor of Jurisprudence unless he shall hold a baccalaureate degree conferred by some institution of approved standing after the completion of a liberal course of undergraduate academic study, and possess a reading knowledge of Latin, French, and German. At the discretion of the Faculty, however, other languages may be substituted when the character of the work undertaken is such as to warrant it. The right is reserved to the Faculty of Graduate Studies to decide in all cases whether the applicant has given sufficient evidence that his antecedent training fulfils these requirements. In addition, the candidate must hold the degree of Bachelor of Laws from this University or from some other institution requiring equivalent work as a prerequisite to that degree.

6. SPECIAL STUDENTS.

Persons who for any reason do not qualify as candidates for a degree may, on the recommendation of the Faculty and with the assent of the professors whose courses they elect to take, be admitted as special students.

\* During the past four years the amount of work required for a degree has been increased, methods of instruction have been changed, and the standard of work exacted in the class-room and upon examination has been raised. The recovery of the Law School from the losses consequent upon these changes has been slower than was anticipated, upon which account it is deemed advisable to postpone putting the advanced requirement into effect. The Faculty and Board of Trustees have not relinquished their determination to put in force this requirement at the earliest practicable date.



## ADVANCED STANDING.

Students may be admitted to advanced standing in the second or third year classes upon satisfying the requirements for the work of the preceding year or years. These requirements may be met by presenting certificates from other law schools of accredited standing showing that the student has successfully completed equivalent courses, or by passing the regular examinations set for that purpose at the beginning of the term, after the student has shown that he has pursued a course of study in the subjects upon which he is examined, covering at least as many hours as are required for such subjects in this University.

All examinations that may be required of applicants for advanced standing are held during the first week of each session.

## HOURS FOR LECTURES.

In the all-day course, leading to the degree of Bachelor of Laws (LL.B.), the greater part of the instruction is given between the hours of 9.00 a. m. and 1.00 p. m.

In the afternoon course, leading to the degree of Bachelor of Law (B.L.), instruction is given between the hours of 4.50 and 6.30 in the afternoon.

Instruction in the fourth year's work required of holders of the degree of Bachelor of Law (B.L.) to obtain the degree of Bachelor of Laws (LL.B.), is also given in the afternoon between 4.50 and 6.30.

The courses open to candidates for the degree of Master of Laws (LL.M.) are, as a general rule, given in the afternoon, though a number of the forenoon courses may be elected as hereinafter indicated, subject to the approval of the Dean.

## METHOD OF INSTRUCTION.

Instruction in the class-room is based upon the study and discussion of cases. In some of the courses students are required to read parallel assignments in text-books.

In conducting the discussion of cases in the class-room every effort is made to lead the student to a clear understanding of the fundamental legal principles that may be involved, and to afford him scientific training in accurate methods of study and of reasoning along legal lines. Students are also required to submit written briefs upon doubtful points of law, to draw up contracts, conveyances, and other papers when the nature of the subject in hand is such as to make exercises of this kind useful in giving accurate instruction.

Subjects involving the adjective law are in charge of professors who are engaged in active practice. The general principles of these subjects, taught in the same manner as indicated above, are developed by practice before the Moot Courts.

## UNDERGRADUATE PROFESSIONAL COURSES.

Undergraduate students in Arts and Sciences upon the completion of forty-five units of credit may take the first year's work of the course for Bachelor of Laws, crediting them fifteen units, on the completion of which they may receive the academic degree.

## COURSES OF INSTRUCTION.

## A. FULL-DAY COURSE LEADING TO THE DEGREE OF BACHELOR OF LAWS (LL.B.).

The course of instruction leading to the degree of Bachelor of Laws extends through a period of three years. A minimum of forty-two hours' work is required of all candidates for this degree, except that regular students registered prior to 1908 will be permitted to qualify for their degrees upon the completion of the course as required at the time of their entrance.

## FIRST YEAR SUBJECTS.

*First Half-Year.*

Contracts. Assistant Professor MONNET. Three hours a week. Williston's Cases on Contracts.

Constitutional Law. Professor HARLAN. Two hours a week. Cooley's Constitutional Law and McClain's Cases on Constitutional Law.

Torts. Professor THURSTON. Five hours a week. Ames & Smith's Cases on Torts.

Domestic Relations. Professor BLAIR. Two hours a week. Long on Domestic Relations.

Criminal Law. Professor EARNEST. Two hours a week. Clark on Criminal Law and Mikell's Cases on Criminal Law.

Bailments. Professor PELLE. One hour a week. Hale on Bailments.

*Second Half-Year.*

Contracts. Assistant Professor MONNET. Four hours a week. Williston's Cases on Contracts.

Property I. Professor VANCE. Four hours a week. Gray's Cases on Property, Volumes I and II.

Constitutional Law. Professor HARLAN. Two hours a week. Cooley's Constitutional Law and McClain's Cases on Constitutional Law.

Criminal Procedure. Professor EARNEST. One hour a week. Clark on Criminal Procedure.

Agency (including Master and Servant). Professor THURSTON. Three hours a week. Wambaugh's Cases on Agency.



## SECOND YEAR SUBJECTS.

*First Half-Year.*

Property II. Professor VANCE. Two hours a week. Gray's Cases on Property, Volumes II and III.

Common Law Pleading and Practice. Professor CLEPHANE. Two hours a week. Tyler's Stephen on Pleading.

Evidence. Professor PETER. Two hours a week. McKelvey on Evidence and Thayer's Cases on Evidence.

Corporations. Professor LORENZEN. Two hours a week. Smith's Cases on Corporations.

Insurance. Professor VANCE. Two hours a week. Wambaugh's Cases on Insurance.

Equity I. Professor STAFFORD. Two hours a week. Ames' Cases on Equity Jurisdiction.

Suretyship. Professor THURSTON. Two hours a week. Ames' Cases on Suretyship.

*Second Half-Year.*

Property II. Professor VANCE. Two hours a week. Gray's Cases on Property, Volumes III and V.

Evidence. Professor PETER. Two hours a week. McKelvey on Evidence and Thayer's Cases on Evidence.

Equity Pleading. Professor CLEPHANE. One hour a week. Thompson's Cases on Equity Pleading.

Corporations. Professor LORENZEN. Two hours a week. Smith's Cases on Corporations.

Equity II. Professor STAFFORD. Two hours a week. Ames' Cases on Equity Jurisdiction.

Quasi-contracts. Professor THURSTON. Three hours a week. Scott's Cases on Quasi-contracts.

Sales. Professor BLAIR. Two hours a week. Burdick's Cases on Sales.

Partnership. Professor PEELLE. One hour a week. Burdick on Partnership.

## THIRD YEAR SUBJECTS.

During the session of 1909-10 third-year students may select from the following courses such subjects as, together with the required Moot Court work, will make up the required minimum of twelve hours a week.

Elections of courses to be taken must be made in all cases within ten days after the beginning of the semester in which such courses are given.

*First Half-Year.*

Moot Court. Professors CLEPHANE, EARNEST, and PETER. Two hours a week. (*Required.*)

Property III. Professor VANCE. Three hours a week. Gray's Cases on Property, Volumes III and V.

Mortgages. Assistant Professor MONNET. Two hours a week. Wyman's Cases on Mortgages.

Municipal Corporations. Professor LORENZEN. Two hours a week. Smith's Cases on Municipal Corporations.

Roman Law. Professor LORENZEN. Two hours a week.

Legal Tactics. Professor CLEPHANE. One hour a week.

Bankruptcy. Professor BRANDENBURG. Two hours a week. Brandenburg on Bankruptcy.

Water Rights and Irrigation. Professor VAN ORSDEL. One hour a week. Long on Irrigation.

Admiralty. Professor SCOTT. Two hours a week. Ames' Cases on Admiralty.

*Second Half-Year.*

Moot Court. Professors CLEPHANE, EARNEST, and PETER. Two hours a week. (*Required.*)

Conflict of Laws. Professor LORENZEN. Four hours a week. Lorenzen's Cases on Conflict of Laws.

Trusts. Professor THURSTON. Three hours a week. Ames' Cases on Trusts.

Federal Procedure. Professor BRANDENBURG. Two hours a week. Hughes on Federal Procedure.

Organization and Management of Corporations. Professor CLEPHANE. One hour a week. Clephane on the Organization and Management of Corporations.

Equity II. Professor STAFFORD. Two hours a week. Ames' Cases on Equity Jurisdiction.

Wills and Administration. Professor PETER. One hour a week.

B. AFTERNOON COURSE LEADING TO THE DEGREE OF  
BACHELOR OF LAW (B.L.).

The course of instruction leading to the degree of Bachelor of Law extends through a period of three years. A minimum of thirty hours' work is required of all candidates for this degree. This course, covering the fundamental subjects of the law, is intended to prepare students for admission to the bar in any of the States or Territories of the United States.



## FIRST YEAR SUBJECTS.

*First Half-Year.*

Contracts. Assistant Professor MONNET. Three hours a week. Williston's Cases on Contracts.

Constitutional Law. Professor HARLAN. Two hours a week. Cooley's Constitutional Law and McClain's Cases on Constitutional Law.

Torts. Professor THURSTON. Five hours a week. Ames & Smith's Cases on Torts.

Bailments. Professor PEELE.\* One hour a week. Hale on Bailments.

*Second Half-Year.*

Contracts. Assistant Professor MONNET. Four hours a week. Williston's Cases on Contracts.

Property I. Professor VANCE. Four hours a week. Gray's Cases on Property, Volumes I and II.

Constitutional Law. Professor HARLAN. Two hours a week. Cooley's Constitutional Law and McClain's Cases on Constitutional Law.

## SECOND YEAR SUBJECTS.

*First Half-Year.*

Property II. Professor VANCE. Two hours a week. Gray's Cases on Property, Volumes II and III.

Evidence. Professor PETER. Two hours a week. McKelvey on Evidence and Thayer's Cases on Evidence.

Common Law Pleading and Practice. Professor CLEPHANE. Two hours a week. Tyler's Stephen on Pleading.

Criminal Law. Professor EARNEST. Two hours a week. Clark on Criminal Law and Mikell's Cases on Criminal Law.

Equity I. Professor STAFFORD. Two hours a week. Ames' Cases on Equity Jurisdiction.

*Second Half-Year.*

Property II. Professor VANCE. Two hours a week. Gray's Cases on Property, Volumes III and V.

Evidence. Professor PETER. Two hours a week. McKelvey on Evidence and Thayer's Cases on Evidence.

Equity Pleading. Professor CLEPHANE. One hour a week. Thompson's Cases on Equity Pleading.

Criminal Procedure. Professor EARNEST. One hour a week. Clark on Criminal Procedure.

Equity II. Professor STAFFORD. Two hours a week. Ames' Cases on Equity Jurisdiction.

Agency (including Master and Servant). Professor THURSTON. Three hours a week. Wambaugh's Cases on Agency.

Partnership. Professor PEELE. One hour a week. Burdick on Partnership.

### THIRD YEAR SUBJECTS.

Third-year afternoon students are required to complete the work in Moot Court and Equity and, in addition, at least three hours' work from the subjects scheduled below. The remaining work required of this class may be freely elected from courses not previously taken.

#### *First Half-Year.*

Moot Court. Professors CLEPHANE, EARNEST, and PETER. Two hours a week. (*Required.*)

Equity I. Professor STAFFORD. Two hours a week. Ames' Cases on Equity Jurisdiction. (*Required.*)

Property III. Professor VANCE. Three hours a week. Gray's Cases on Property, Volumes III and V.

Municipal Corporations. Professor LORENZEN. Two hours a week. Smith's Cases on Municipal Corporations.

Bills and Notes. Professor LORENZEN. Three hours a week. Hufcut's Negotiable Instruments: Statutes, Cases and Authorities.

Legal Tactics. Professor CLEPHANE. One hour a week.

Water Rights and Irrigation. Professor VAN ORSDER. One hour a week. Long on Irrigation.

#### *Second Half-Year.*

Moot Court. Professors CLEPHANE, EARNEST, and PETER. Two hours a week. (*Required.*)

Equity II. Professor STAFFORD. Two hours a week. Ames' Cases on Equity Jurisdiction. (*Required.*)

Conflict of Laws. Professor LORENZEN. Four hours a week. Lorenzen's Cases on Conflict of Laws.

Trusts. Professor THURSTON. Three hours a week. Ames' Cases on Trusts.

Organization and Management of Corporations. Professor CLEPHANE. One hour a week. Clephane on the Organization and Management of Corporations.

### FOURTH YEAR SUBJECTS.

Fourth-year afternoon students, candidates for the LL.B. degree, may freely elect from the courses not previously taken, subjects aggregating a sufficient number of hours to satisfy the requirements for this degree. During the session 1909-10 the following courses will be so scheduled as to be available for fourth-year afternoon students.



*First Half-Year.*

Insurance. Professor VANCE. Two hours a week. Wambaugh's Cases on Insurance.

Suretyship. Professor THURSTON. Two hours a week. Ames' Cases on Suretyship.

Water Rights and Irrigation. Professor VAN ORSDEL. One hour a week. Long on Irrigation.

Roman Law. Professor LORENZEN. Two hours a week.

Municipal Corporations. Professor LORENZEN. Two hours a week. Smith's Cases on Municipal Corporations.

Domestic Relations. Professor BLAIR. Two hours a week. Long on Domestic Relations.

*Second Half-Year.*

Agency (including Master and Servant). Professor THURSTON. Three hours a week. Wambaugh's Cases on Agency.

Conflict of Laws. Professor LORENZEN. Four hours a week. Lorenzen's Cases on Conflict of Laws.

Trusts. Professor THURSTON. Three hours a week. Ames' Cases on Trusts.

**C. LEADING TO THE DEGREE OF MASTER OF LAWS (LL.M.).**

Students admitted as candidates for the degree of Master of Laws are required to elect courses, not previously taken, covering a minimum of ten hours a week. These may be freely elected from the courses offered by the Faculty of Law and from the following courses given in The College of the Political Sciences.

Comparative Constitutional Law. Professor WILLOUGHBY. Two hours a week, one-half year.

International Arbitration. Professor BREWER. One hour a week, one-half year. Taylor's International Law.

International Law. Professor SCOTT. Two hours a week, one year. Scott's Cases on International Law.

Government Control of Transportation. President NEEDHAM. Two hours a week, one year.

Administrative Law. Dr. McBAIN. Two hours a week, first half-year. Goodnow's Cases on Administrative Law.

Private Rights and Immunities under the Constitution. Dr. McBAIN. Two hours a week, second half-year.

*Advanced Practice.* Candidates for the Master's degree may also elect advanced practice work in the Moot Court, receiving therefor a credit of two hours for the year.

#### D. LEADING TO THE DEGREE OF MASTER OF PATENT LAW (M.P.L.).

A special course in Patent Law and Patent Law Practice is given by Professor Church. The purpose of this course is to prepare those taking it for practice in all matters involving the law of patents. The course extends throughout one year, with two lectures or sessions of the Moot Court each week. (For the admission requirements for this course, see page 6.)

#### E. LEADING TO THE DEGREE OF DOCTOR OF JURISPRUDENCE (J.D.).

The work for this degree is similar in character, method, and scope to that required for the degree of Doctor of Philosophy, and is under the control of the University Faculty of Graduate Studies. See the General Catalogue of the University.

#### COURSES IN PRACTICE.

##### A. MOOT COURT WORK.

###### 1. *Third Year:*

Particular stress is laid upon Moot Court work. Aside from the practice court connected with the course in Patent Law, there are four courts in which undergraduate students pursue their work. Three of these are *nisi prius* courts and are presided over by members of the Washington Bar in active practice. The fourth is a Court of Appeals to review the cases tried in the courts of first instance. This court also is composed of members of the Washington Bar.

Every third-year student before receiving the Bachelor's degree is required to prepare the pleadings in and prosecute to judgment the required number of cases in the *nisi prius* courts, with the privilege of appeal to the appellate tribunal. At least two hours in each week during the year must be spent by each third-year student in active participation in Moot Court work in the court-room to which he is assigned.

Statements of facts are furnished, such as would be related to a lawyer in active practice by his client. Each student must determine whether or not upon such facts the particular case in hand is one of common-law or equitable cognizance. He must then frame his pleadings, serve his writs, and answer his adversary's pleadings, until issue is joined in legal manner, after which the case is brought on for hearing in strict accordance with the rules of actual practice. Juries are empaneled in accordance with settled legal procedure, witnesses are examined and cross-examined, and the case conducted through all the various stages of the trial or hearing down to and including the judg-



ment or decree, after which, should the case be appealed, it must be carried through the appellate court, involving the preparation of the record on appeal, briefs of counsel, etc.

*2. Fourth Year:*

The same facilities for Moot Court work as are described above are afforded in the course leading to the degree of Master of Laws. In this course, however, the nature of the cases assigned is somewhat different, involving, in addition to the ordinary cases at common-law or in equity, cases of a special character, such as habeas corpus, certiorari, quo warranto, injunction, mandamus, extradition, replevin, attachment, etc.

*3. Officers and Equipment:*

The clerk of the Moot Court is one of the assistant clerks of the Supreme Court of the District of Columbia, but his assistants in each court-room are chosen from the student body, from whose ranks are also drawn the criers, jurors, and other officials, thus giving to the students the benefit of practice in administrative judicial machinery. The Moot Court is to all intents and purposes an actual court. The rooms in which the sessions are held are fitted up with judges' benches, clerks' desks, jury-boxes, and counsel table, and from the time the crier announces that the court is in session until he announces its adjournment the procedure is identical with that of a regular judicial tribunal.

It is believed that any student who gives the proper attention to this feature of the law curriculum will be enabled to go out from this institution and creditably try cases in court, although he may never have been in an actual court-room.

A careful record is kept of the work of each student, both as to his pleadings and his conduct of the case in court, and the ratings thus given determine, in connection with his ratings upon other subjects, whether or not he is entitled to a degree.

## B. LEGAL TACTICS.

Every young lawyer entering upon his professional career is desirous of availing himself of the experience of an older practitioner and of learning many things which are not taught and cannot be taught from books. It is to meet the needs of this class of men that this course has been inaugurated. It is in charge of a member of the Washington Bar whose practice has been an active one, extending over a period of many years.

A short introductory talk is given upon the relations between attorney and client, including the important subject of fees, after which the student is given the benefit of practical hints upon the manner of start-

ing in practice and opening and furnishing an office, with suggestions as to office systems. Advice is given as to selecting a law library, the best way to find authorities in point, and how such authorities should be used in court.

The student is told how to listen intelligently to his client's grievances; how to draw up the pleadings arising out of these grievances; how to prepare for trial the case thus made, including the work of preparing the evidence; how to try the case and examine and cross-examine witnesses; the manner of making up the record, writing briefs, and conducting the argument on appeal. The subject of professional ethics is discussed. At various times during the year distinguished lawyers are invited to appear and discuss informally special topics of interest to the students.

#### EXAMINATIONS AND GRADES.

##### A. UNDERGRADUATE COURSES.

###### *Regular Examinations:*

Written examinations are held at the close of each semester upon those subjects that have been completed during that semester. All students, unless specially excused by the Dean, are required to take the first examination held in any subject after their completion of the course in that subject.

No student, except by special permission of the Dean, will be allowed to take an examination in any subject unless he shall be regularly registered and have been in regular attendance upon the lectures and have done all the work required in the course of instruction upon that subject.

###### *Grades:*

At all examinations, the grading of students will be indicated by the letters A, B, C, D, E, and F, representing, respectively, *excellent*, *good*, *satisfactory*, *fair*, *conditioned*, and *failed*.

###### *Conditions:*

A student receiving the grade of E (*conditioned*), in the regular examination in any course, will be given an opportunity to remove the condition by passing a subsequent examination with the grade of C or better.

The regular examinations for the removal of conditions will be held during the first week of each session. Applications for permission to take any of these examinations must be made to the Dean, in writing, not later than three days before the date for which such examination is scheduled. Candidates for either of the Bachelor's degrees may, by action of the Faculty, be granted special examinations in not more than



two subjects carried as conditions during the first semester of their last year, at the end of that semester, and in one subject carried as a condition during the second semester, at the end of that year.

A student receiving the grade of F (*failed*), in any examination, or the grade of D or E in any examination to pass off a condition in any course, will be required to take the course over again before being permitted to take another examination in such course.

*Class Standing:*

Students having conditions in more than two subjects will not be advanced from one class to another, nor will candidates for a degree be permitted to carry more than one condition into the second semester of the year in which they expect to be graduated. Students may have, however (subject to the provisions above enumerated), an opportunity to remove conditions, imposed during any session, by taking the regular examinations for the removal of conditions at the beginning of the following session, for which no fee is charged.

Students having conditions in more than three subjects will not be allowed to register except upon special permission from the Dean.

*Special Examinations:*

No special examinations, other than those above provided for, will be granted to any students except those of the graduating class who, for good cause, shall have been excused by the Dean from taking any regular examination during the third year.

*Attendance:*

Regular attendance is required in all courses; and the examination grade of any student in any course may be withheld and the passing of another examination or the repetition of the course may be required on the sole ground of unsatisfactory attendance.

*Election of Courses:*

No student shall be allowed to register in courses aggregating more than sixteen hours during any one semester without first obtaining the permission of the Faculty.

Every student who is a candidate for graduation with the degree of Bachelor of Laws in his third year shall take and pass in each semester of his third-year courses aggregating ten hours.

Election of courses to be taken must be made in all cases within ten days after the beginning of the semester in which such courses are given.

B. GRADUATE COURSES.

Examinations in graduate courses will be given at such times and under such conditions as may be designated by the professors in charge.

## DEGREES.

## 1. BACHELOR OF LAWS.

The degree of Bachelor of Laws will be conferred upon students who shall have passed satisfactory examinations upon the subjects required in the entire course of three years and whose attendance and conduct have been satisfactory to the Faculty.

The degree of Bachelor of Laws *with distinction* will be awarded to students whose average percentage in all subjects is equivalent to the grade of A.

## 2. BACHELOR OF LAW (B.L.)

The degree of Bachelor of Law will be conferred upon students who shall have completed the work prescribed for this degree, and whose attendance and conduct have been satisfactory to the Faculty.

## 3. MASTER OF LAWS.

The degree of Master of Laws will be conferred upon students who have completed the work prescribed for this degree with the grade of C or better and whose attendance and conduct have been satisfactory to the Faculty.

## 4. MASTER OF PATENT LAW.

The degree of Master of Patent Law will be conferred upon students who shall have successfully completed the work of the Patent Law course and whose attendance and conduct have been satisfactory to the Faculty.

## 5. DOCTOR OF JURISPRUDENCE.

The degree of Doctor of Jurisprudence is given for graduate work in the science of the law upon the same terms and conditions as the degree of Doctor of Philosophy in the Department of Arts and Sciences. See the General Catalogue.

## LAW LIBRARY AND READING-ROOM.

A well-equipped working library, comprising about 5200 volumes, is open to the students in Law Lecture Hall from 9 a. m. to 10 p. m. Competent librarians are in charge and will give students assistance in looking up subjects and in the use of books.

The Library contains the standard text-books, the West Reporter system of Federal and State Decisions complete, State Reports, the English Common Law and Chancery Reports, Encyclopædias of Law, Digests, reference books, and current law publications.

Adjoining the Library is a conversation-room for students, affording opportunity for consultation.

In addition to these facilities, the students have free access to the Congressional Library and other public libraries.



**PRIZES.**

A prize offered by the Edward Thompson Company, of a set of the Encyclopædia of Law, first or second edition, or a set of the Encyclopædia of Pleading and Practice, is awarded each year to the senior law student who shall write the best thesis on some legal subject to be assigned by the Faculty.

Three prizes—one of \$40, one of \$30, and one of \$20—are annually given to the respective authors of the best three essays handed in by such members of the third-year class as shall compete for them and shall pass successful examinations.

A prize of \$25 in gold, offered by Mr. Fritz von Briesen, called the "Ellsworth Prize," is awarded for the best work done in the Patent Law Course by a student receiving the degree of Master of Patent Laws.

**PUBLIC SPEAKING.**

Excellent facilities for training in the art of public speaking are afforded by the two debating societies that have been organized in the Department of Law. These societies, known as the Columbian and Needham Debating Societies, meet weekly for debate. Membership in these societies is entirely optional, but their work is encouraged in every legitimate way by the Faculty, and students are urgently advised to take part in their exercises. During each academic year several intercollegiate debates are held. Membership upon the intercollegiate debating teams is an honor eagerly sought and made the prize to be won in separate preliminary contests. The general conduct of these intercollegiate debates is under the supervision of a committee from the Faculty.

**ADMISSION TO THE BAR OF THE DISTRICT OF COLUMBIA.**

By the rules of the Supreme Court of the District of Columbia, applicants for admission to the Bar are required to have studied law for three years under the direction of a competent attorney, but by those rules the course in the Department of Law of the University is regarded as discharging this requirement.

**FEEES.**

1. Matriculation fee (payable once).....	\$5
2. Annual library fee.....	2
3. Tuition fee per annum for each hour taken per week.....	10
4. Late registration fee in the case of students registering for the first term after October 20, or for the second term after February 20, excepting for courses which do not begin with the terms .....	2
5. Fee for graduation .....	10
6. Tuition fee for course in Patent Law.....	40
7. Fee for a certificate under the seal of the University.....	2

No change will be made in the fees fixed at the time of registration except in case of withdrawal, and then only upon notice in due form, and from the end of the current quarter session when such withdrawal shall be approved. Applications for the granting of a withdrawal should be made on the prescribed form to be obtained from the Secretary and will only be received at the end of a quarter session.

The library fee will not be charged for the first half-year during which a course is completed in the case of students who enter at the beginning of the second half-year and pay the library fee for that year.

#### PAYMENT OF FEES.

All fees are to be paid to the Treasurer. Regular tuition fees are payable quarterly in advance. Fees for special courses are payable monthly in advance. Matriculation and library fees are payable in full in advance.

#### BOARD AND ROOMS.

A register of approved boarding houses is kept by the Treasurer. Accommodations cost from \$25 to \$40 a month.

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For catalogues, application blanks, and further information, address

THE SECRETARY,  
*The George Washington University,*  
*Washington, D. C.*



## DEPARTMENT OF MEDICINE.

## FACULTY.

The names are arranged in the several groups in the order of assignment.

## PRESIDENT OF THE UNIVERSITY.

CHARLES WILLIS NEEDHAM, LL.D.

J. FORD THOMPSON, M.D.,

*Professor of Surgery, Emeritus.*

## PROFESSORS.

A. F. A. KING, A.M., M.D., LL.D.,

*Professor of Obstetrics and Dean Emeritus of the Faculty.*

Consulting Physician, Children's Hospital; *Obstetrician-in-Chief to The George Washington University Hospital and Dispensary.*

1315 Massachusetts Ave., N. W.

GEORGE NICHOLAS ACKER, A.M., M.D.,

*Professor of Pediatrics and Clinical Professor of Medicine.*

Physician to the Children's Hospital; Consulting Physician to the Episcopal Eye, Ear and Throat Hospital, to the Lutheran Infirmary, to the Casualty Hospital, and to the Eastern Dispensary; *Pediatrician-in-Chief to The George Washington University Hospital and Dispensary.*

913 15th St., N. W.

HENRY CRÉCY YARROW, M.D.,

*Professor of Dermatology.*

Consulting Physician to the Garfield Memorial Hospital and to the Children's Hospital; Visiting Physician to the Woman's Clinic; *Dermatologist-in-Chief to The George Washington University Hospital and Dispensary.*

814 17th St., N. W.

D. KERFOOT SHUTE, A.M., M.D.,

*Professor of Anatomy and Associate Professor of Ophthalmology.*

Consulting Ophthalmologist, Government Hospital for the Insane; Ophthalmologist to Providence Hospital, Central Dispensary and Emergency Hospital, Columbia Hospital, and to the Washington Hospital for Foundlings; *Ophthalmologist-in-Chief to The George Washington University Hospital and Dispensary.*

1719 De Sales St.

STERLING RUFFIN, M.D.,

*Professor of Medicine.*

Visiting Physician, Columbia Hospital for Women; Consulting Physician to the Central Dispensary and Emergency Hospital and to the Government Hospital for the Insane; *Physician-in-Chief to The George Washington University Hospital and Dispensary.*

1335 Connecticut Ave.

C. E. MUNROE, S.B., Ph.D.,

*Professor of Chemistry.*

President American Chemical Society, 1898; President Washington Chemical Society, 1895; Vice-President of the American Association for the Advancement of Science, 1888; Fellow of the Chemical Society of London and of the Chemical Gesellschaft, Berlin; etc., etc.

2115 S. St., N. W.

CHARLES WILLIAMSON RICHARDSON, M.D.,

*Professor of Laryngology, Rhinology, and Otology.*

Laryngologist to Providence Hospital, to the Episcopal Eye, Ear and Throat Hospital, and to the Washington Hospital for Foundlings; *Laryngologist-in-Chief to The George Washington University Hospital and Dispensary.*

1317 Connecticut Ave.

J. WESLEY BOVÉE, M.D.,

*Professor of Gynecology.*

Gynecologist to the Columbia Hospital for Women; *Gynecologist-in-Chief to The George Washington University Hospital and Dispensary.*

The Rochambeau.

THOMAS A. CLAYTOR, M.D.,

*Professor of Materia Medica and Therapeutics and Clinical Professor of Medicine.*

Visiting Physician to the Garfield Memorial Hospital and to the Tuberculosis Hospital of the District of Columbia.

1315 New Hampshire Ave.

A. R. SHANDS, M.D.,

*Professor of Orthopedic Surgery.*

Orthopedic Surgeon to the Central Dispensary and Emergency Hospital; *Orthopedic Surgeon, The George Washington University Hospital and Dispensary.*

901 16th St., N. W.

FRANCIS R. HAGNER, M.D.,

*Professor of Genito-Urinary Surgery and Venereal Diseases.*

Genito-Urinary Surgeon to the Garfield Memorial Hospital; *Chief of the Genito-Urinary Clinic, The George Washington University Hospital and Dispensary.*

1725 N St., N. W.

WILLIAM C. WOODWARD, LL.M., M.D.,

*Professor of Medical Jurisprudence.*

Health Officer, District of Columbia.

508 L St., N. W.

WILLIAM A. WHITE, M.D.,

*Professor of Mental and Nervous Diseases.*

Superintendent of the Government Hospital for the Insane, District of Columbia; Lecturer on Insanity, U. S. Army Medical School and U. S. Navy Medical School.

Government Hospital for the Insane.

I. W. BLACKBURN, M.D.,

*Professor of Morbid Anatomy.*

Pathologist to the Government Hospital for the Insane, District of Columbia.

Government Hospital for the Insane.



## SHEPHERD IVORY FRANZ, A.B., PH.D.,

*Professor of Physiology.*

Psychologist to Government Hospital for the Insane; Research Assistant, Carnegie Institute, Washington, D. C.

Government Hospital for the Insane.

## J. J. KINYOUN, M.D., PH.D.,

*Professor of Pathology.*Pathologist, Department of Health, District of Columbia; *Pathologist-in-Chief to The George Washington University Hospital and Dispensary.*

1423 Clifton St.

## WILLIAM CLINE BORDEN, M.D.,

*Professor of Surgery and Dean.*Lieut.-Colonel, Medical Corps, United States Army, Retired; *Surgeon-in-Chief to The George Washington University Hospital and Dispensary.*

1801 California St., N. W.

## D. W. PRENTISS, M.D.,

*Professor of Hygiene.**Assistant in Gynecology, The George Washington University Dispensary.*

1315 M St., N. W.

## HURON W. LAWSON, M.S., M.D.,

*Professor of Histology and Embryology and Associate in Surgery.*Visiting, Obstetrician, Freedmen's Hospital; *Associate in Surgery, The George Washington University Hospital and Dispensary.*

1520 9th St., N. W.

## ASSOCIATE PROFESSORS.

## WILLIAM K. BUTLER, A.M., M.D.,

*Associate Professor of Ophthalmology.*Ophthalmologist to the Garfield Memorial Hospital; Surgeon-in-Charge, Lutheran Eye, Ear and Throat Infirmary; *Associate in Ophthalmology, The George Washington University Hospital and Dispensary.*

1207 M St., N. W.

## W. O. OWEN, M.D.,

*Associate Professor of Anatomy.*

Major, Medical Corps, United States Army, Retired; Chairman Executive Committee of the Board of Trustees, Garfield Memorial Hospital.

2123 18th St., N. W.

## ASSISTANT PROFESSOR.

## ISAAC KING PHELPS, PH.D.,

*Assistant Professor of Physiological Chemistry.*

## CLINICAL PROFESSORS.

## RANDOLPH BRYAN CARMICHAEL, M.D.,

*Clinical Professor of Dermatology.*Dermatologist to the Garfield Memorial Hospital, the Providence Hospital, the Washington Hospital for Foundlings, the Central Dispensary and Emergency Hospital; *Assistant in Dermatology, The George Washington University Hospital and Dispensary.*

818 17th St., N. W.

JOHN VAN RENSSELAER, A.B., M.D.,

*Clinical Professor of Surgery.*

Attending Surgeon to the Garfield Memorial Hospital.

The Rochambeau.

ALBERT L. STAVELY, M.D.,

*Clinical Professor of Gynecology.*

Gynecologist to the Garfield Memorial Hospital.

1744 M St., N. W.

ARTHUR A. SNYDER, M.D.,

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Attending Surgeon to the Garfield Memorial Hospital and to the Women's Clinic.

3051 N St., N. W.

JOHN R. WELLINGTON, M.D.,

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1706 Rhode Island Ave., N. W.

#### ASSOCIATES.

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1321 Rhode Island Ave.

EDWARD E. MORSE, L.M., M.D.,

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Obstetrician to the Providence Hospital and to the Freedmen's Hospital; Assistant Obstetrician to the Columbia Hospital for Women; *Associate in Obstetrics, The George Washington University Hospital and Dispensary.*

1527 I St., N. W.

EDWARD G. SEIBERT, M.D.,

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The Rochambeau.

CHARLES STANLEY WHITE, M.D.,

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The Farragut.



H. H. DONNALLY, A.M., M.D.,

*Associate in Medicine.*

Attending Physician, Home for Incurables; *Associate in Medicine, The George Washington University Hospital and Dispensary.*

1018 14th St., N. W.

FRANK FREMONT-SMITH, M.D.,

*Associate in Pediatrics.*

Attending Physician to the Washington Hospital for Foundlings and to the Children's Hospital; Consulting Physician to the Garfield Memorial Hospital; *Associate in Pediatrics, The George Washington University Hospital and Dispensary.*

1731 H St., N. W.

WM. F. M. SOWERS, A.B., M.D.,

*Associate in Surgery.*

Associate Surgeon to the Providence Hospital; Visiting Surgeon to the Washington Hospital for Foundlings and to the Freedmen's Hospital; *Associate in Surgery, The George Washington University Hospital and Dispensary.*

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G. BROWN MILLER, B.S., M.D.,

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1731 H St., N. W.

B. M. RANDOLPH, M.D.,

*Associate in Materia Medica and Therapeutics.*

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2010 R St., N. W.

HENRY R. ELLIOTT, M.D.,

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The Maury.

WILBUR R. BRANDENBURG, M.D.,

*Associate in Bacteriology and Pathology.*

2335 18th St., N. W.

#### CLINICAL ASSOCIATES.

LUTHER H. REICHELDERFER, M.D.,

*Clinical Associate and Instructor in Surgery.*

Attending Surgeon to the Garfield Memorial Hospital, and to the Hospital for Tuberculosis, District of Columbia.

1206 P St., N. W.

## EDGAR P. COPELAND, M.D.,

*Clinical Associate in Pediatrics.*

Member of the Dispensary Staff of the Children's Hospital and of the Board of Medical Examiners of the District of Columbia; *Associate in Pediatrics, The George Washington University Hospital and Dispensary.*

The Rockingham.

## DUFF G. LEWIS, M.D.,

*Clinical Associate in Surgery.*

1311 14th St., N. W.

## JOHN T. KELLY, M.D.,

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Gynecologist to Providence Hospital.

1312 15th St., N. W.

## W. A. FRANKLAND, M.D.,

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Gynecologist to the Casualty Hospital, and Eastern Dispensary.

1300 Massachusetts Ave., N. W.

## NOBLE P. BARNES, M.D.,

*Clinical Associate in Medicine and Instructor in Materia Medica and Therapeutics.*

Pediatrician to the Freedmen's Hospital and to the Eastern Dispensary and Casualty Hospital.

212 Maryland Ave., N. E.

## INSTRUCTORS.

## S. H. GREENE, JR., M.D.,

*Instructor in Anatomy.*

Assistant Surgeon, Episcopal Eye, Ear, Nose and Throat Hospital.

The Burlington.

## HOMER S. MEDFORD, M.D.,

*Instructor in Obstetrics.*

Assistant in Out-door Maternity Service, Eastern Dispensary and Casualty Hospital.

151 C St., N. E.

## J. L. RIGGLES, M.D.,

*Instructor in Anatomy and Gynecology.*

Assistant Gynecologist, The George Washington University Dispensary.

1424 K St., N. W.

## T. M. PRICE, Ph.D.,

*Instructor in Biochemistry.*

The Iowa.

## O. D. SWETT, M.S.,

*Instructor in Chemistry.*

Chevy Chase, Md.



WALTER H. MERRILL, M.D.,

*Instructor in Electro-Therapeutics.*

Radiographer to the Garfield Memorial Hospital; Radiographer to The George Washington University Hospital and Dispensary.

1913 14th St., N. W.

O. A. M. McKIMMIE, M.D.,

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Assistant Laryngologist, The George Washington University Hospital and Dispensary; Associate Physician, the Episcopal Eye, Ear and Throat Hospital.

1317 Rhode Island Ave., N. W.

H. S. DYE, M.D.,

*Instructor in Laryngology and Otology.*

Assistant in Laryngology, the Central Dispensary and Emergency Hospital; Assistant Laryngologist, The George Washington University Hospital and Dispensary.

1406 L St., N. W.

TRUMAN ABBE, M.D.,

*Instructor in Physiology and Surgery.*

Anesthetist to the Columbia Hospital for Women.

1819 M St., N. W.

J. LAWN THOMPSON, M.D.,

*Instructor in Surgery.*

805 12th St., N. W.

W. W. WILKINSON, M.D.,

*Instructor in Medicine.*

Assistant Pathologist to the Garfield Memorial Hospital.

The Burlington.

CHARLES W. HYDE, M.D.,

*Instructor in Medicine.*

The Plymouth.

ARTHUR L. HUNT, M.D.,

*Instructor in Surgery.*

Assistant Surgeon, The George Washington University Dispensary.

The Burlington.

E. T. M. FRANKLIN, M.D.,

*Instructor in Surgery.*

1315 19th St., N. W.

W. J. FRENCH, M.D.,

*Instructor in Pediatrics.*

Assistant Pediatrician to the Central Dispensary and Emergency Hospital.

1736 18th St., N. W.

GEORGE B. HEINECKE, M.D.,

*Instructor in Anatomy.*

Brightwood, D. C.

E. P. MAGRUDER, M.D.,

*Instructor in Anatomy.*

The Ashley.

DANIEL T. BIRTWELL, M.D.,

*Instructor in Anatomy.*

Assistant, Surgical Service, Central Dispensary and Emergency Hospital.

2719 14th St., N. W.

ADAM KEMBLE, M.D.,

*Instructor in Gynecology.*

Assistant Gynecologist, The George Washington University Hospital.

The Cecil.

VERGIL B. JACKSON, M.D.,

*Instructor in Anatomy and Gynecology.*

Assistant Surgeon, Central Dispensary and Emergency Hospital.

The Brunswick.

SOTHORON KEY, M.D.,

*Instructor in Medicine.*

1716 H St., N. W.

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C. S. BUTLER, M.D.,

*Instructor in Bacteriology and Tropical Diseases,*

U. S. Navy Medical School, 1333 Harvard St.

CLARA SOUTHMAYD LUDLOW, Ph.D., M.D.,

*Instructor in Histology and Embryology,*

Address G. W. U.

THE MEDICAL STAFF OF THE GEORGE WASHINGTON  
UNIVERSITY HOSPITAL AND DISPENSARY.

## DIVISION OF MEDICINE.

## General Medicine.

STERLING RUFFIN, M.D.	.....	Physician-in-Chief
GEORGE N. ACKER, M.D.,	}	..... Associates
THOMAS A. CLAYTOR, M.D.,		
H. H. DONNALLY, M.D.,		
W. A. FRANKLAND, M.D.,	}	..... Assistants
W. C. MOORE, M.D.,		
E. B. JONES, M.D.,		
F. E. HARRINGTON, M.D.,		



## Diseases of Children.

GEORGE N. ACKER, M.D. .... *Pediatrician-in-Chief*  
 FRANK FREMONT-SMITH, M.D., } ..... *Associates*  
 E. P. COPELAND, M.D., }

## Dermatology.

HENRY C. YARROW, M.D. .... *Dermatologist-in-Chief*  
 RANDOLPH B. CARMICHAEL, M.D. .... *Associate*

## General Surgery.

W. C. BORDEN, M.D. .... *Surgeon-in-Chief*  
 C. S. WHITE, M.D., } ..... *Associates*  
 JOHN R. WELLINGTON, M.D., }  
 W. F. M. SOWERS, M.D., }  
 ARTHUR L. HUNT, M.D., }

## Orthopedics.

A. R. SHANDS, M.D. .... *Orthopedic Surgeon*

## Genito-Urinary Diseases.

FRANCIS R. HAGNER, M.D. .... *Genito-Urinary Surgeon*  
 HENRY R. ELLIOTT, M.D., } ..... *Associates*  
 HENRY G. FULLER, M.D., }

## Gynecology.

J. WESLEY BOVÉE, M.D. .... *Gynecologist-in-Chief*  
 G. BROWN MILLER, M.D. .... *Associate*  
 D. W. PRENTISS, M.D., } ..... *Assistants*  
 J. L. RIGGLES, M.D., }  
 V. B. JACKSON, M.D., }  
 ADAM KEMBLE, M.D., }

## Obstetrics.

A. F. A. KING, M.D. .... *Obstetrician-in-Chief*  
 E. E. MORSE, M.D., } ..... *Associates*  
 J. M. CABELL, M.D., }

## Ear, Throat and Nose.

CHAS. W. RICHARDSON, M.D. .... *Laryngologist-in-Chief*  
 O. A. M. MCKIMMIE, M.D., } ..... *Associates*  
 H. S. DYE, M.D., }  
 C. L. BILLARD, M.D., } ..... *Assistants*  
 MEADE MOORE, M.D., }

## Ophthalmology.

E. KERFOOT SHUTE, M.D. .... *In Charge*  
 W. K. BUTLER, M.D. .... *Associate*  
 E. G. SEIBERT, M.D. .... *Assistant*

**Residents.**

A. J. BROWNING, M.D.....	<i>Senior Interne</i>
F. W. McKNIGHT, M.D.,	} <i>Assistants</i>
W. R. JOBSON, M.D.,	
S. B. POLE, M.D.,	
MISS MARY BELLE STRUBEL.....	<i>Superintendent of Nurses</i>

**GENERAL STATEMENT.**

The Department of Medicine of the George Washington University, in the chronological order of establishment, is the seventeenth Medical School in the United States. The first course of lectures began in March, 1825. For many years the school was known as the National Medical College; subsequently as the Department of Medicine of the Columbian University. By virtue of an Act of Congress approved January 23, 1904, the Columbian University changed its name to "The George Washington University."

When first established, and for many years thereafter, this school, like most others in this country, gave only a two years' course of five months each. In 1878 the course was lengthened by the establishment of a Spring Session, devoted to lectures in certain special subjects. In 1879 the course was lengthened to seven months and attendance upon three annual sessions required and in 1893 attendance on four regular courses was made obligatory upon all candidates for the degree of Doctor of Medicine. In order to increase the facilities for actual bedside teaching, the University Hospital was established in 1898 and made a part of the Department of Medicine. In 1902 the old Medical College building, in which the exercises had been held since 1867, gave place to the present enlarged and commodious structure.

The Medical Department of the University has been for several years a member of the Association of American Medical Colleges, and its students and graduates have the advantages arising from such membership. Its curriculum, while including all the subjects required by the standard of the Association of Medical Colleges, gives more hours to each subject, and has additional subjects which are of the greatest value in thorough preparation for the profession of medicine.

**BUILDINGS AND OTHER FACILITIES.**

The Buildings of the Medical Department consist of the Medical College Building, the University Hospital and Dispensary, and necessary adjunct buildings. They are most advantageously situated in the heart of the city near both systems of car lines. The University Hospital adjoins the Medical College Building, thereby making its clinical facilities directly available in the College. The pathological material,



and the material for clinical microscopy and clinical chemistry afforded by the Hospital and Dispensary, are directly used in the laboratories of the school.

The **Medical College Building** is a modern, commodious structure, with spacious, well-lighted, well-ventilated lecture rooms, and Histological, Bacteriological, Physiological, and Medical Laboratories.

The **Laboratories** are equipped with the most approved appliances, so that students may adequately pursue the laboratory courses and acquire the technical skill necessary in modern clinical and research methods. The dissecting-room is large, well-ventilated, and well-lighted by large skylights.

The **University Medical Library** is open for study and consultation from 9 a. m. to 9.00 p. m. It contains at present more than 1400 volumes, and provision is made in the annual library fee charged every student to add to it as published the important new works on medicine. It is an excellent working collection for the medical student, as it affords opportunity to adequately read up on the subjects presented in the courses.

The **Pathological Museum** contains a great many valuable and interesting specimens. Their number is increased by additions from time to time. These specimens are particularly valuable to the students as illustrating the changes produced by disease.

The **advantages of Washington** as a place for pursuing the study of medicine are many. This city now has over three hundred thousand inhabitants, providing abundant clinical material to the hospitals, which have an aggregate of over three thousand beds. In these hospitals clinical instruction, in addition to that given in the University Hospital, is given by members of the faculty.

The great libraries and museums connected with the various Government institutions afford unparalleled facilities for study.

The Library of the Surgeon General's office of the United States Army is the most complete medical library in the world. This library, as all other libraries of the Government, is open to the public between the hours of 9 a. m. and 4.30 p. m. There is also the Library of Congress and the many excellent libraries of the various other Government offices.

The Army Medical Museum affords an unrivaled opportunity for studying the conditions met with in military surgery. It contains on exhibition a collection of anatomical and pathological specimens unequalled by any other museum. Other Government museums are the Museum of Hygiene, in connection with the Medical Department of the Navy. The National Museum contains the most complete and best

arranged collection of *materia medica* in the world. The drugs are shown in all their processes of manufacture. The Botanic Gardens, the Smithsonian Institution, the Fish Commission, the Department of Agriculture, all afford opportunities for study both in medicine and its collateral sciences.

On account of the many advantages offered in this city, the Army and Navy Medical Schools have been here located. The Alumni of this College is largely represented in all public services, and has been highly successful in passing the rigid examinations by them. Ten per cent of the total number of the regular medical corps of the United States Army are graduates of this College.

Aside from the special advantages offered for the study of medicine, the cosmopolitan character of the city of Washington, its climate (not excessively cold in winter), its beauty, and its interests, which, as it is the seat of the general government, are broad and national, make it an ideal place for the student to pass four years of preparation for the practice of a learned profession.

The **Academic Year** begins on the last Wednesday in September and ends on the second Wednesday in June. The next session, the eighty-ninth, begins September 29, 1909, and ends June 8, 1910.

Students must register promptly at the beginning of the session, in order that their time of study shall count as a full year.

**Degrees** are conferred at Commencement, the second Wednesday in June; at the Fall Convocation, the third Wednesday in October, and at the Winter Convocation, February 22.

#### ADMISSION.

Candidates for matriculation must show that they are fitted by previous education to study medicine. The requirements are those of the Association of American Medical Colleges and are as follows:

Candidates for matriculation must present creditable certificates of good moral character from two physicians in good standing.

The educational requirements for admission are those of the Association of Medical Colleges (equivalent to the 15 units of credit required for the College of Arts and Sciences), and are as follows:

**SECTION 1.** (a) A Bachelor's degree from an approved college or university.

(b) A diploma from an accredited high school, normal school, or academy requiring for admission evidence of the completion of an eight-year course in primary and intermediate grades; and for graduation not less than four years of study, embracing not less than two years (4 points) of foreign language, of which one must be Latin, two years (4 points) of mathematics, two years (4 points) of English, one year



(2 points) of history, two years (4 points) of laboratory science, and six years (12 points) of further credit in language, literature, history, or science.

(c) An examination in the following branches:

A. Required (18 points); Mathematics (4 points); English (4 points); History (2 points); Language (two must be Latin, 4 points); Science (taken from physics, chemistry, botany, zoölogy), 4 points.

B. Optional (to 12 points); English, 2 points; History, 6 points; Language, 6 points; Manual Training, 2 points; Mechanical Drawing, 1 point; Natural Science (botany, biology, and zoölogy), 2 points; Astronomy (1), Civics (1), Geology (1), Physical Geography (1), Physiology, and Hygiene (1), Political Economy (1).

(One point in any subject in a high school or academic course demands not less than five periods per week of forty-five minutes each for eighteen weeks.)

(d) Certificates from reputable instructors recognized by the State Board of Medical Examiners duly authorized by law or by the Superintendent of public instruction in States having no examining board may be accepted in lieu of any part of this examination.

SEC. 2. This examination must be conducted by or under the authority of the Board of Examiners or the Superintendent of public instruction of the city or State in which the college is located. In no case shall it be conducted by any person connected with the faculty, medical or otherwise, of the institution to which the student is seeking admission.

SEC. 3. A student may be allowed to enter on his medical work conditioned in not more than six points, and these conditions must be removed by satisfactory examination before he is allowed to enter on the second year of his medical course.

The examinations (c) are conducted by examiners appointed by the Superintendent of Schools of the District of Columbia.

As the laws relating to the preliminary educational qualifications required of students of medicine differ in many of the States of the Union, candidates are advised to make themselves familiar with the provisions of the medical statutes of the States in which they contemplate applying for license to practice. Attention to this precaution may save future embarrassment.

Examinations for admission to the first-year Medical class will be held in Hall No. 2 of the Medical Building, in accordance with the following schedules:

September 13, 10 a. m., English.

September 14, 10 a. m., Mathematics.

September 15, 10 a. m., Physics.

September 16, 10 a. m., Latin.

September 17, 10 a. m., Electives.

### ADMISSION OF STUDENTS FROM OTHER SCHOOLS.

Students who have attended one or more terms at any other medical college in good standing will be admitted to advanced standing upon passing the examination required of students for the stage at which they propose to enter, or upon presenting certificates of examination covering courses equal to those in this College.

Students, approved by the Dean, not candidates for the degree of Doctor of Medicine, may be admitted as special students without examination to pursue any course they may elect.

### SYSTEM OF INSTRUCTION.

The term of study for the degree of Doctor of Medicine consists of four years of eight months each.

Instruction is carried on by laboratory work, recitations, lectures, bedside instruction and hospital and dispensary clinics. Particular stress is laid upon laboratory work and clinical teaching. The clinics of the University Hospital and Dispensary are utilized to the fullest extent, as the Hospital and the Medical College are under the same control. Additional clinics are given in other hospitals in the city to which members of the faculty are attached.

While the greatest stress is laid upon laboratory work and the clinical teaching, it is recognized that the facts so obtained must be correlated and shown in their due relation to each other and to the science of medicine.

To this end didactic lectures are maintained in certain branches, as they have been found necessary to give a systematic and comprehensive idea of the larger subjects in medicine. These lectures are followed by systematic and thorough quizzes, so that it may be certain that the students properly and thoroughly grasp the ideas presented by the lecturers.

The recitation and quiz work is made so complete that students do not need to employ private quizmasters.

The object sought throughout the courses is to thoroughly ground the students in the knowledge which is necessary to the practitioner of medicine. No particular attempt is made to graduate specialists in any subject. It is believed that the four years allowed are no more than sufficient time for the adequate preparation of the general practitioner.

*The policy adopted by the College is to give a comprehensive, well-graded and well-proportioned course; one that will adequately prepare the graduate to practice general medicine and meet the requirements of State Boards.*



## ORDER OF INSTRUCTION.

A general view of the subjects studied in each year are shown in the following table:

First Year.	Second Year.	Third Year.	Fourth Year.
Anatomy.	Organic and	Practice.	Clinical Medicine.
Histology.	Physiological	Surgery.	Clinical Surgery.
Embryology.	Chemistry.	Obstetrics.	Clinical Obstetrics.
Physiology.	Pathology.	Therapeutics.	Clinical Gynecology.
General	Bacteriology.	Gynecology.	Laryngology.
Chemistry.	Topographical	Medical	Otology.
	Anatomy.	Jurisprudence.	Ophthalmology.
	Materia Medica.	Clinical	Hygiene.
	Pharmacology.	Microscopy.	Surgical Anatomy.
	Surgical	Clinics.	Dermatology.
	Technique.	Dietetics.	Psychiatry.
	Physical		Pediatrics.
	Diagnosis.		Neurology.
			Tropical Diseases.

The greater part of the fourth year is devoted to clinical work in the hospitals. During this year, however, general instruction is also given in Mental Diseases, Neurology, Dermatology, Ophthalmology, Laryngology, and Otology. Not less than 1000 hours of clinical works are required.

## CLASSIFICATION OF STUDENTS.

Students are divided into four classes, according to their proficiency, and the time spent, viz: first year, second year, third year, and fourth year. Students cannot advance to a higher class with more than one condition. Students failing in any subject or subjects may be permitted at the next examination period a re-examination in the subjects in which they fail. The Faculty may dismiss any student from the school, if in its judgment such student be deemed an unsuitable person, intellectually or otherwise for the profession of medicine.

## Optional Five-Year Course.

Since the session of 1904-05 a five-year optional course has been offered for the benefit of students. In this course the subjects are arranged as follows:

First Year.	Second Year.	Third Year.	Fourth Year.	Fifth Year.
Anatomy.	Physiological	Bacteriology.	Practice.	Clinical
Histology.	and Organic	Pathology.	Surgery.	Medicine.
General	Chemistry.	Hygiene.	Obstetrics.	Clinical
Chemistry.	Physiology.	Therapeutics.	Gynecology.	Obstetrics.
	Materia	Medical Juris-		Clinical
	Medica.	prudence.		Surgery.
	Pharmacology.	Clinical		Laryngology.
		Microscopy.		Otology.
		Physical		Ophthal-
		Diagnosis.		mology.
				Dermatology.
				Psychiatry.
				Pediatrics.
				Neurology.
				Tropical
				Diseases.

## ANATOMY.

D. KERFOOT SHUTE, A.B., M.D.....	Professor of Anatomy
W. O. OWEN, M.D.....	Associate Professor of Anatomy
S. H. GREENE, JR., M.D.....	Instructor in Anatomy
J. L. RIGGLES, M.D.....	Instructor in Anatomy
G. B. HEINECKE, M.D.....	Instructor in Anatomy
E. P. MAGRUDER, M.D.....	Instructor in Anatomy
D. T. BIRTWELL, M.D.....	Instructor in Anatomy
VERGIL B. JACKSON, M.D.....	Instructor in Anatomy
PRESLEY HUNT, M.D.....	Instructor in Anatomy

The first year course in Anatomy is given in a series of lectures, demonstrations, recitations from text-books, and practical laboratory work. The lectures are illustrated by lantern slides, models, and diagrams. The student is required to dissect satisfactorily the lateral half of a cadaver. Throughout the course every opportunity is taken to emphasize the application of anatomy to the practice of medicine in all its departments.

Osteology and Syndesmology are taught by recitations and demonstrations at the beginning of the course, preparatory to the more advanced studies in Anatomy.

In the second year a course in Topographical Anatomy is given, in which recitations and laboratory demonstrations are used to thoroughly familiarize the student with the subject. In the fourth year a course



in operative surgery on the cadaver, and general surgical anatomy, is given in connection with the course in surgery. In this way a thorough preparation in general and applied anatomy is given.

**Text-books:** Gray's Anatomy, Cunningham's Text-book of Anatomy, Cunningham's Manual of Practical Anatomy.

*Collateral reading:* Quain's Anatomy, Spalteholz's Anatomy, Pier-  
sol's Anatomy, Taylor's Applied Anatomy, Wiedersheim's Structure of  
Man, Morris' Anatomy.

#### HISTOLOGY AND EMBRYOLOGY.

H. W. LAWSON, M.S., M.D....Professor of Histology and Embryology  
E. B. JONES, M.D.....Instructor  
CLARA S. LUDLOW, Ph.D.....Instructor

Instruction is given in the care and use of the microscope and in the preparation of tissues for microscopical examination, and a systematic study is made of the minute structure of the tissues and organs of the body, the laboratory work being supplemented by lectures and recitations.

A combined lecture, recitation, and laboratory course is given in embryology. The written and oral examinations at the end cover both subjects.

**Text-books:** Böhm, Davidoff, and Huber's Histology, Bryce's Embryology.

*Collateral reading:* Nichol's Histology, Stöhr's Histology, Bailey and Miller's Embryology.

#### PHYSIOLOGY.

SHEPHERD IVORY FRANZ, Ph.D.....Professor of Physiology  
H. C. ELLIOTT, M.D.....Associate in Physiology  
TRUMAN ABBE, M.D.....Instructor in Physiology

The course in Physiology consists of lectures, recitations, conferences, demonstrations, and laboratory exercises, during the second half of the first year. The lectures cover all the important facts and theories regarding bodily functions, and are illustrated by diagrams, models, and prepared specimens. Recitations are held on assigned parts of the text-book. Conferences are held on special physiological topics, and for these exercises each student is required to prepare one thesis during the semester. In the laboratory each student performs a number of experiments on blood, on the circulation, on digestion, on the general functions of muscle and nerve, on the nervous system, and on the special senses. The student is required to make and keep records of

the experiments, and these are criticised by the instructors. The class is divided into sections so that each student receives a large amount of personal attention. In the second year a series of exercises is held in which special emphasis is laid on the relation of normal physiological function to the disturbances of function in disease, and upon the physiological action of drugs. It is intended in this way to bring the work of the Physiological Laboratory and other exercises into closer relation with the succeeding courses in Pathology, Therapeutics, and General Medicine.

**Text-books:** Tigerstedt's Physiology; Howell's Physiology.

**Collateral reading:** Schafer's Physiology, Landois' Physiology, American Text-book of Physiology, Stewart's Physiology.

### CHEMISTRY.

CHARLES E. MUNROE, Ph.D....Professor of Chemistry and Toxicology

I. K. PHELPS, Ph.D.....Assistant Professor Physiological Chemistry

EDWARD G. SEIBERT, M.D....Associate in Chemistry and Instructor in  
Ophthalmology

THOMAS M. PRICE, Ph.D.....Instructor in Biochemistry

OTIS D. SWETT, B.S.....Instructor in Chemistry

**General Chemistry.** A series of illustrated lectures accompanied by recitations, laboratory work, and exercises, on theoretical, inorganic, organic, and technical chemistry.

**Organic Chemistry.** A series of lectures, laboratory work, and recitations on the acyclic and cyclic hydrocarbons and their derivatives, with special reference to physiology and medicine.

**Physiological Chemistry.** A series of lectures, laboratory work, and recitations on the proximate principles of the human body.

**Biochemistry.** A laboratory course in the chemical examination of some of the chief foodstuffs, the tissues and fluids of the body, and the products of certain organisms; also the isolation of the digestive enzymes and a study of their action *in vivo*. DR. PRICE.

**Clinical Chemistry.** A thorough course is given in which material from the University Hospital and Dispensary is utilized to show the practical application of this subject in medicine.

**Text-books:** Holland's Medical Chemistry and Toxicology, Long's Text-book of Physiological Chemistry, Platt's Manual of Qualitative Analysis and Medical Chemistry.

**Collateral reading:** Simon's Manual of Chemistry, Hammarsten's Physiological Chemistry, Richter's Organic Chemistry, Barker's Text-book of Elementary Chemistry.



**MATERIA MEDICA AND THERAPEUTICS.**

THOMAS A. CLAYTOR, M.D.....	Professor of Materia Medica and Therapeutics
NOBLE P. BARNES, M.D.....	Instructor in Materia Medica
WALTER H. MERRILL, M.D.....	Instructor in Electro-Therapeutics
B. M. RANDOLPH.....	Instructor in Pharmacology

Second year. (1) Lectures upon Materia Medica, including a demonstration of drugs and their preparations. (2) Recitations upon the preparations, their doses, and the various antidotes for poisons. (3) Practical exercises in prescription writing. (4) Demonstrations in the drugs. (5) An optional course in Pharmacy is offered.

Third year. (1) Systematic lectures upon the physiological action of drugs and their effects in health and disease, their therapeutic uses, and their methods of administration. (2) Lectures and section demonstrations in electro-therapeutics. (3) Prescription writing, in which the students are given hypothetical cases for which to prescribe, the prescriptions being reported before the class for criticism and discussion.

*Collateral reading:* Hare's Practical Therapeutics, Culbreth's Materia Medica and Pharmacy, Cushney's Pharmacology, Osborne's Introduction to Pharmacology and Medicine, Sollman's Text-book of Pharmacology, Forcheimer's Prophylaxis and Treatment of Internal Disease.

**DIETETICS.**

J. B. NICHOLS, M.D.....	Associate in Medicine
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A course of lectures and quizzes on the principles of feeding in health and disease.

**PATHOLOGY AND BACTERIOLOGY.**

JOSEPH J. KINYOUN, M.D, Ph.D.....	Professor of Bacteriology and Pathology
WILBUR R. BRANDENBURG, M.D.....	Associate in Bacteriology and Pathology
ARTHUR L. HUNT, M.D.....	Instructor in Bacteriology and Pathology

Bacteriology. The first part of the session is devoted to a laboratory course of instruction in the fundamental principles and methods of pure bacteriology. A thorough drilling is given in the preparation of culture media, in sterilization and disinfection, staining, and in the several methods of differentiating bacteria. The course will continue over six weeks.

Pathology. The course in Pathology will be given in the second and third years, and will comprise in general, special pathology, and clinical microscopy. The second year will be devoted to the study of the prin-

ciples of general pathology and of the several processes observed in disease. Post-mortem examinations will be utilized when possible. Coincidentally with the above will be included the study of the principal pathogenic bacteria: the principles of immunity and serum therapy.

During the third year will be given a course of instruction in special pathology, which will include the study of those processes requiring surgical relief; the healing of wounds and other injuries; of special diseases, neoplasms, and problems of experimental pathology.

The course in Clinical Microscopy will comprise the study and examination of various tissues, fluids, and material from the standpoint of diagnosis.

**Text-books:** Bacteriology, Jordan; Pathology, Delafield and Prudden.

**Collateral reading:** Ziegler's Pathological Anatomy, Adami's Pathology, Park's Pathogenic Bacteria and Clinical Diagnosis, Simon and Von Jasch.

#### MORBID ANATOMY.

I. W. BLACKBURN, M.D.....Professor of Morbid Anatomy

The instruction in this course is mainly practical, consisting of post-mortem examinations, demonstrations, and illustrative lectures pertaining to the subjects of morbid anatomy and special pathology. Especial attention is paid to the study of the gross pathology of diseases of the brain and nervous system. Instruction in the technique of post-mortem examinations for scientific purposes and in medico-legal cases is a feature of the course.

#### MEDICINE.

STERLING RUFFIN, M.D.....Professor of Medicine  
 GEO. N. ACKER, A.M., M.D.....Clinical Professor of Medicine  
 THOS. A. CLAYTOR, M.D.....Clinical Professor of Medicine  
 WILLIAM A. WHITE, M.D..Professor of Mental and Nervous Diseases  
 J. B. NICHOLS, M.D.....Associate in Medicine  
 H. H. DONNALLY, A.M., M.D.....Associate in Medicine  
 W. W. WILKINSON, M.D.....Instructor in Medicine  
 CHARLES W. HYDE, M.D.....Instructor in Medicine  
 SOTHORON KEY, M.D.....Instructor in Medicine  
 C. B. CONKLIN, M.D.....Instructor in Medicine

Instruction in Medicine is so given as to conform to the most modern requirements. The work begins in the second year with a complete course in history-taking and normal physical diagnosis, and is continued through the third and fourth years. During the latter two years the course consists of lectures, recitations, a study of case histories, clinical conferences, and practical work in the clinical laboratory and at the bedside. The work is made as practical as possible.



The third-year class is divided into small sections which are required to attend the daily dispensary service in the University Hospital, where they are drilled especially in history-taking and in the technique of practical physical diagnosis.

The fourth-year class is similarly divided into small sections, and these are required to attend the daily ward clinics in the University Hospital and ward clinics in the Garfield Memorial Hospitals, Children's Hospital, and the Tuberculosis Hospital of the District of Columbia.

The system of ward clinics to small groups of students affords a most effective method of studying disease and gives to every student an opportunity of following a large assortment of diseases from their commencement to the termination of illness: in no other way is it possible to get a more practical knowledge of the methods of studying disease or a more intimate knowledge of disease itself.

Every patient in the medical wards of the University Hospital is assigned to two senior students, who are required (under proper supervision) to take the history, to make and record a complete physical examination, to determine after due study the nature of the illness (diagnosis), to outline a plan of treatment, and to make daily notes of the progress of the case.

A weekly amphitheater clinic is given to third-year students in a body and a similar clinic to the fourth-year class. A series of special neurological clinics is provided for the senior class at the Government Hospital for the Insane, where there is a great wealth of material.

**Text-books and works of reference:** Osler's, Tyson's or Anders' Practice of Medicine; Manson's Tropical Diseases; Church and Peterson's Nervous and Mental Diseases; Cabot's Physical Diagnosis; Brown and Ritchie's Medical Diagnosis; Sahli's Diagnostic Methods; Simon's or Boston's Clinical Diagnosis; Cabot's Clinical Examination of the Blood; Osler's Modern Medicine; Nothnagel's Encyclopedia of Practical Medicine.

#### TROPICAL MEDICINE.

C. S. BUTLER, M.D., Surgeon U. S. Navy....Instructor in Bacteriology and Tropical Diseases, U. S. Navy Medical School

The course in tropical diseases is similar to that given in the Army and Navy Medical Schools, and consists of didactic lectures, quizzes, and laboratory instruction, with particular reference to the parasitic, protozoal diseases common in the tropics and in the southern part of the United States.

**Text-book:** Manson's Tropical Diseases.

**MENTAL DISEASES.**

WILLIAM A. WHITE, M.D.....Professor of Mental Diseases

A series of lectures and clinics is given upon the subject of insanity in its various forms.

Many of these clinics are given at the Government Hospital for the Insane, which, with its more than two thousand beds, affords one of the largest clinics in this country.

**Text-book:** White's Outlines of Psychiatry.

**Collateral reading:** Paton's Psychiatry; Kraepelin's Clinical Psychiatry.

**PEDIATRICS.**

GEORGE N. ACKER, A.M., M.D.....Professor of Pediatrics

FRANK FREMONT-SMITH, M.D.....Associate in Pediatrics

EDGAR P. COPELAND.....Associate in Pediatrics

Didactic and clinical lectures are given upon diseases of infants and children and the importance of the proper management of these diseases by diet and hygiene.

The children's clinic, at the Children's Hospital, affords ample material for practical teaching in this branch.

**DERMATOLOGY.**

H. C. YARROW, M.D.....Professor of Dermatology

R. B. CARMICHAEL, M.D.....Clinical Professor of Dermatology

The lectures on this subject are illustrated by diagrams, models, photographic illustrations of disease from life, and also by the exhibition of cases. In connection with the course clinical instruction is given.

**Text-book:** Jackson's Diseases of the Skin.

**PHYSICAL DIAGNOSIS.**

W. W. WILKINSON, M.D.....Associate in Medicine

A complete course is given in this subject by means of recitations, section work on normal subjects, and with clinical cases which typically represent diseased conditions.

The text-books are those given under the general subject of medicine.

**SURGERY.**

WILLIAM CLINE BORDEN, M.D.....Professor of Surgery

JOHN VAN RENSSELAER, A.B., M.D.....Clinical Professor of Surgery

A. R. SHANDS, M.D.....Professor of Orthopedic Surgery

ARTHUR A. SNYDER, M.D.....Clinical Professor of Surgery



FRANCIS R. HAGNER, M.D.....	Professor of Genito-Urinary Surgery
JOHN R. WELLINGTON, M.D.....	Clinical Professor of Surgery
CHARLES S. WHITE, M.D.....	Associate in Surgery
W. F. M. SOWERS, A.B., M.D.....	Associate in Surgery
H. W. LAWSON, M.D.....	Associate in Surgery
L. H. REICHELDERFER.....	Clinical Associate in Surgery
DUFF G. LEWIS.....	Clinical Associate in Surgery
JOHN T. KELLY.....	Clinical Associate in Surgery
J. LAWN THOMPSON, M.D.....	Instructor in Surgery
A. L. HUNT, M.D.....	Instructor in Surgery
E. T. M. FRANKLIN, M.D.....	Assistant in Surgery
L. M. HYNSON, M.D.....	Assistant in Surgery

The principles of surgery are presented in a systematic course of lectures, so that the student may obtain a comprehensive and adequate concept of the science and art of surgery. These lectures are followed by recitations held twice a week, so that the subject-matter may be thoroughly impressed upon the students. The special divisions of surgery are taught by associates and instructors who have made specialties of these branches. The clinical material in the University Hospital and Dispensary, being under the control of the faculty, is directly used throughout the course to illustrate the subjects taught and to familiarize the students with actual clinical conditions.

Surgical technique is taught by instruction in the preparation of materials used in antiseptic and aseptic surgery, the preparation of the patient, and the sterilization of instruments. Practical instruction is given in the Hospital and Dispensary in the application of splints, bandages, and dressings used in the various surgical diseases and injuries. Thorough instruction and practical demonstrations are given in the administration of anesthetics. Surgical pathology is taught by thorough instruction in the gross and microscopic appearance of surgical diseases and injuries, and by a systematic course of lectures and quizzes by which the etiology, pathology, symptomatology, and treatment of the surgical affections and their relations to each other are shown.

Clinical teaching is carried on in the University Hospital and Dispensary, and in other hospitals of the city to which members of the faculty are attached. Amphitheater clinics are given, in which the general practice of surgical diagnosis and operative technique and therapeutic procedure are shown.

Ward clinics and bedside instruction are made a prominent part of the course. The class is divided into sections, which are regularly assigned to clinical work in the University Hospital and Dispensary, and in other hospitals. Students are assigned to work in the surgical out-patient departments of the different hospitals, and practical work is

required of each student in the preparation of dressings, sterilization of instruments, etc.

In the fourth year a thorough course is given in surgical anatomy and operative surgery of the cadaver, in connection with which the instructor takes up a general review of anatomy, so that the student may be thoroughly prepared for State Board examinations for graduation.

Orthopedics. A course of lectures and recitations on the pathology, etiology, course, termination, and treatment of chronic joint diseases, with clinical instruction in the application of special apparatus and of plaster of paris to the correction of deformities.

Instruction in genito-urinary surgery and in cystoscopy is given in clinics in section work and by recitations from text-book.

#### OBSTETRICS.

A. F. A. KING, A.M., M.D., LL.D.....	Professor of Obstetrics, Dean Emeritus
EDWARD E. MORSE, M.D.....	Associate in Obstetrics
JULIAN M. CABELL, M.D.....	Associate in Obstetrics
H. S. MEDFORD, M.D.....	Instructor in Obstetrics

The course in Obstetrics comprises a series of lectures on the science and art of midwifery, together with practical work. The chief purpose of the lecturer is to arrange, simplify, and explain the matters studied in the text-books so as to render them more easily intelligible and to indicate their relative importance. The lectures are illustrated by diagrams, models, manikins, natural preparations, and instruments. The class is divided into sections, and each student performs various obstetrical operations upon the manikin and receives practical instruction in external pelvimetry and the methods of abdominal palpation and auscultation during pregnancy. Recitations from text-books are held throughout the term. In the fourth year clinical instruction in obstetrics is given, the class being divided into small sections and each section being required to attend a stated number of cases.

**Text-book:** King's Manual of Obstetrics.

**Collateral reading:** Hirst's Obstetrics, Williams' Obstetrics, Jewett's Practice of Obstetrics.

#### GYNECOLOGY.

J. WESLEY BOVÉE, M.D.....	Professor of Gynecology
G. BROWN MILLER, M.D.....	Associate in Gynecology
A. L. STAVELY, M.D.....	Clinical Professor of Gynecology
W. A. FRANKLAND, M.D.....	Instructor in Clinical Gynecology
J. LEWIS RIGGLES, M.D.....	Instructor in Gynecology



Gynecology as taught in the third year comprises a course of lectures and text-book recitations. In the fourth year the class is taken in sections of one to two students each into the Gynecological Dispensaries for clinical instruction in examinations, diagnosis, and treatment. In larger sections the class attends amphitheater clinics given by the Professors of Gynecology and Clinical Gynecology.

**Text-books:** Bovee's Practice of Gynecology, Hirst's Diseases of Women.

**Collateral reading:** Dudley's Gynecology, Penrose's Diseases of Women, Ashton's Practice of Gynecology, Montgomery's Text-book of Gynecology, Findley's Medical Gynecology.

#### LARYNGOLOGY AND OTOTOLOGY.

CHARLES W. RICHARDSON, M.D.. Professor of Laryngology and Otology  
O. A. M. MCKIMMIE, M.D.....Instructor in Laryngology and Otology  
H. S. DYE, M.D.....Instructor in Laryngology and Otology

This course comprises lectures and clinical instruction on diseases of the nasal passages, pharynx, larynx, and also the ear. Practical demonstrations are given in the use of the laryngoscope and other instruments required in these special branches.

**Text-books:** Kyle's Diseases of the Nose and Throat, Dench's Diseases of the ear.

#### OPHTHALMOLOGY.

D. KERFOOT SHUTE, A.B., M.D.. Associate Professor of Ophthalmology  
W. K. BUTLER, M.D.....Associate Professor of Ophthalmology  
E. G. SEIBERT.....Instructor in Ophthalmology

The course of lectures on this subject is to direct attention to the elementary principles of the subject. It is not intended to qualify the student as a specialist, but to give him a knowledge of what every general practitioner ought to know. The course is supplemented by clinical instruction.

**Text-books:** May's Diseases of the Eye, Fuch's Diseases of the Eye, Ball's Diseases of the Eye.

#### HYGIENE.

D. W. PRENTISS, M.D.....Professor of Hygiene

The course in Hygiene is given principally by recitation from a prescribed text-book. Consideration is given to domestic and municipal sanitation and to the principles underlying legislative interference in matters of public health.

**Text-book:** Harrington's Hygiene.

**Collateral reading:** Notter and Firth's Hygiene.

**MEDICAL JURISPRUDENCE.**

W. C. WOODWARD, M.D. .... Professor of Medical Jurisprudence

This course is designed to familiarize students with the rights and obligations of physicians, both legal and ethical, and to qualify them to apply the facts of medical science to the solution of problems in law.

**Text-book:** Reese's Medical Jurisprudence and Toxicology.

**CLINICAL FACILITIES.**

The following hospitals are open to the students of this school for clinical study, and are extensively used for that purpose:

**University Hospital**, H St., between Thirteenth and Fourteenth Sts., N. W., and adjacent to the Medical Building.—This hospital is a part of the educational equipment of this University, and is used primarily in instructing the students in clinical medicine, surgery, and obstetrics. It has also in connection with it an out-patient or dispensary service in all departments.

The staff is composed of Members of the Faculty of Medicine.

**Garfield Memorial Hospital**, Florida Ave. and Tenth St., N. W.—This institution has 118 charity beds. Clinics are given regularly throughout the session by members of the Faculty connected with the visiting staff of the hospital. There is also an out-patient department, giving good opportunities for experience in the practice of physical diagnosis.

Members of the Faculty on the visiting staff: Professor CLAYTOR, Clinical Medicine; Professors VAN RENSSELAER, SNYDER, WELLINGTON and REICHELDERFER, Clinical Surgery; Professor STAVELY, Clinical Gynecology; Professor CARMICHAEL, Clinical Dermatology; Professors SHUTE and BUTLER, Clinical Ophthalmology; Professor HAGNER, Clinical Genito-Urinary Surgery; Professor YARROW and Dr. FREMONT-SMITH, Consulting Physicians.

**Children's Hospital**, W St., between Twelfth and Thirteenth Sts., N. W.—Regular clinical instruction is given in the medical and surgical wards by members of the Faculty on the visiting staff of the hospital. This institution has 100 charity beds. There is also a large out-patient department.

Members of the Faculty on the visiting staff: Professors KING and YARROW, Consulting Physicians; Professor WELLINGTON, Clinical Surgery; Professor ACKER and Drs. COPELAND and FREMONT-SMITH, Clinical Medicine.



**Emergency Hospital and Central Dispensary, Fifteenth St., and Ohio Ave., N. W.**—This hospital has 36 charity beds, and has a very large out-patient service. The large emergency service gives exceptional facilities in clinical surgery.

Members of the Faculty on the visiting staff: Professor HAGNER, Clinical Genito-Urinary Diseases; Professor RUFFIN, Consulting Physician; Drs. WHITE and JACKSON, Surgery; Dr. ELLIOTT, Clinical Medicine; Professor CARMICHAEL, Clinical Dermatology; Dr. MILLER, Clinical Gynecology; Professor SHANDS, Orthopedics; Professor SHUTE, Ophthalmology; Dr. FRENCH, Pediatrics.

**Columbia Hospital for Women, Twenty-fifth St. and Pennsylvania Ave., N. W.**—This hospital has 68 charity beds for diseases peculiar to women and 50 charity maternity beds. Both the obstetrical and the gynecological services are particularly good.

Members of the Faculty on the visiting staff: Professor BOVEE and Dr. MILLER, Clinical Gynecology; Drs. MORSE and CABELL, Clinical Obstetrics; Professor SHUTE, Ophthalmology; Professor RUFFIN, Visiting Physician.

**Providence Hospital, Second and D Sts., S. E.**—This institution has a large charity service—100 beds for medical and surgical cases and 30 maternity beds.

Members of the Faculty on the visiting staff: Professor RICHARDSON, Clinical Laryngology and Otology; Professor SHUTE, Clinical Ophthalmology; Dr. SOWERS, Clinical Surgery; Professor CARMICHAEL, Dermatology; Dr. MORSE, Obstetrics.

**The Government Hospital for the Insane.**—This hospital is maintained by the United States Government. It has 2500 beds. Clinical instruction in mental diseases is given by the superintendent of the hospital, Professor W. A. WHITE. Other members of the Faculty on service at this hospital are Professors FRANZ and BLACKBURN; Professor SHUTE, Consulting Ophthalmologist; Professor RUFFIN, Consulting Physician.

**Episcopal Eye, Ear, Throat, and Nose Hospital, Fifteenth St., between L and M Sts., N. W.**—Excellent opportunities for clinical instruction in ophthalmology, otology, laryngology, and rhinology are offered by this hospital.

Members of the Faculty on its staff: Professor RICHARDSON, Clinical Otology and Laryngology; Drs. McKIMMIE and DYE, Clinical Otology and Laryngology; Professor ACKER, Consulting Physician.

**Lutheran Dispensary**, Fourteenth and N Sts., N. W.—This dispensary affords good opportunities for clinical study of diseases of the eye, ear, throat, and nose.

Members of the Faculty on its staff: Professor BUTLER, Surgeon-in-Charge; Dr. SEIBERT, Ophthalmology; Professor ACKER, Consulting Physician.

**Casualty Hospital**, 708 Massachusetts Ave., N. E.—Opportunities in emergency and dispensary work are offered by this institution.

Members of the Faculty on its staff: Professor ACKER, Consulting Physician; Dr. BARNES, Clinical Medicine; Dr. MEDFORD, Obstetrics.

**Woman's Clinic**, 1237 T St., N. W.—Members of the Faculty on its staff: Professor YARROW, Consulting Physician; Professor SNYDER, Attending Surgeon.

**Tuberculosis Hospital**, 14th and Upshur Sts., N. W.—Members of the Faculty on its staff: Professor CLAYTOR and Dr. RANDOLPH, Clinical Medicine; Professor KINYOUN, Pathology; Dr. REICHELDERFER, Clinical Surgery; Professor RICHARDSON, Ophthalmology.

#### EXAMINATIONS.

Examinations are held at the end of the course in each subject. Students failing in examination will be permitted to be re-examined at the next regular examination period. Students failing in re-examination must repeat the subjects in which they do not attain a grade of 85 or more. Students failing to appear at the regular examinations will not be examined until the next regular examination, except by special permission of the Faculty, and in this event an extra fee of \$5.00 will be charged. Students failing to pass satisfactorily their practical laboratory examinations will be required to repeat the laboratory courses and pay the regular laboratory fees. Students will not be admitted to examination unless they have paid all fees due at the time or present a permit signed by the Treasurer. In order to avail themselves of the privilege of re-examination students must file their applications with the Dean not later than fifteen days before the date set for the examinations.

In addition to the foregoing examinations students are required: To dissect satisfactorily one lateral half of a cadaver; to report satisfactorily an analysis of specimen of urine and a clinical examination of a specimen of blood; to examine and report upon six clinical cases in general medicine and two cases in surgery; to perform satisfactorily two major surgical operations upon the cadaver;



to work not less than two weeks in the Dispensary Service of the University or other hospitals; to work not less than two weeks in the Clinical Laboratory of the University or of some other hospital approved by the Dean; to take charge of one or more obstetrical cases and to report thereon; to examine and report on one case in either ophthalmology, laryngology, otology, dermatology, or orthopedics; to report upon one case in gynecology.

Proficiency is marked upon a scale of 100. A grade of 75 is required to pass an examination.

Students do not receive their numerical grades, but are notified that they have attained grades A, B, C, D, E, or F, as the case may be. A signifies 96 to 100; B signifies 90 to 95; C signifies 85 to 89; D signifies 75 to 84; E signifies failure; F signifies failure to appear for examination.

#### REQUIREMENTS FOR DEGREES.

Every candidate for the degree of Doctor of Medicine must be at least twenty-one years of age and of reputable character. He must have complied with the admission examination and other requirements herein set forth. He must file with the Dean, at least 30 days before the dates fixed for conferring of degrees, a notice of his intention to appear for graduation, and he must be present at the time specified for examination, and also at Commencement or Convocation. The degree is not conferred in the absence of a candidate except by special consent of the President's Council. Graduates of other accredited colleges must spend one year in residence at this school.

To be eligible for graduation the candidate must pass all his examinations.

Candidates who in their work and examinations attain general averages of 90 or more will be presented to the Faculty for consideration with reference to being designated as "having graduated with distinction." If in the opinion of the Faculty such candidates have shown themselves to be possessed of more than ordinary merit, they will have inscribed upon their diplomas beneath their degree the words "with distinction," and the names of such graduates will be distinctly printed at the head of the list of graduates of the year.

Candidates who have completed their courses, but have not passed their final examinations, may take the fall or the winter re-examinations upon payment of a fee of \$10, and, if successful, receive their diplomas at the Fall or Winter Convocation, as the case may be, upon the payment of the diploma fee.

A student who has failed of graduation after repeating his final year will not be permitted to maintain his connection with the school.

**SCHOLARSHIPS.**

Eight scholarships are provided for students.

**CORCORAN SCHOLARSHIPS.**—In recognition of the liberality of the late W. W. Corcoran, the University has established in this department six free scholarships.

Two of these scholarships are open for competitive examination to the graduates of the several high schools of the District of Columbia and are awarded to the two students whose averages are highest.

Two scholarships are open for competitive examination to graduates of any reputable high school or college who shall give satisfactory written evidence of pecuniary inability and certificates of good moral character and industry. These two scholarships are awarded to the two graduates whose averages are highest.

The remaining two scholarships are open for competitive examination to students who, though not graduates of any high school or college, give satisfactory evidence that they are fitted by previous education for the study of medicine, and at the same time give satisfactory written evidence of pecuniary inability and certificates of good moral character and industry. These two scholarships are awarded to the two students whose averages are highest.

In establishing these averages professional aptitude and general qualifications are considered along with scholastic ability.

**MEDICAL MISSIONARY SCHOLARSHIPS.**—Two Medical Missionary Scholarships will be given to such applicants as are judged by the President of the University best qualified to enter upon the study of medicine for the purpose of becoming medical missionaries. These scholarships are awarded for one year only, but they may be renewed.

Applications for scholarships should be filed with the Dean not later than September 10. Students holding scholarships pay the matriculation, library, laboratory, and graduation fees, and make the deposit to cover breakage. Holders of scholarships must also maintain a satisfactory scholastic average.

**PRIZES.**

A general examination prize of \$50 is annually awarded to the candidate for graduation who attains the highest average grade in all subjects.

Professor H. C. YARROW gives a prize for the best examination in Dermatology.

Professor CHARLES W. RICHARDSON gives a prize for the best examination in Laryngology and Otology.

Professor ACKER gives a prize for the best examination in Pediatrics.



Professor BUTLER gives a prize for the best examination in Ophthalmology.

Professor HAGNER gives a prize for the best examination in Genito-Urinary Diseases.

#### HOSPITAL APPOINTMENTS.

The interns are annually appointed in the University Hospital. They are appointed from graduates who have served as externs. Seven externs are also appointed from graduates and from the fourth-year class. These appointments are made upon competitive examinations under conditions determined by the governing authorities of the Hospital. Appointments to similar positions are open to the graduates and undergraduates of this school in the following other hospitals of the city: Garfield Memorial Hospital, Emergency Hospital, Columbia Hospital for Women, Casualty Hospital, Providence Hospital, Washington Asylum Hospital, Children's Hospital, Episcopal Eye, Ear, Throat, and Nose Hospital.

#### FEES AND CONTINGENT EXPENSES.

1. Matriculation fee (payable once).....	\$5
2. Annual library fee .....	2
3. Tuition fee per annum, including all charges for materials....	150
4. Late registration fee in the case of students registering for the first term after October 20, or for the second term after February 20, excepting for courses which do not begin with the terms .....	2
5. Fee for graduation .....	10
6. Tuition fee per annum for any year repeated once, or for a fifth year .....	75
In addition to the tuition fees for special or repeated laboratory courses, a charge will be made for materials used.	
7. Fee for a certificate under the seal of the University.....	2
8. Auditors are admitted to lecture courses for the regular tuition fees, but are not permitted to take active part in the work of the classes, and will not be allowed credit, in a subsequent course of studies leading to a degree, for attendance as auditors. No matriculation or library fee is charged.	

No change will be made in the fees fixed at registration except in case of withdrawal, and then only upon notice in due form, and from the end of the current quarter session, when such withdrawal shall be approved. Applications for the granting of a withdrawal should be made on the prescribed form to be obtained from the Registrar, and will be received only at the end of a quarter session.

Students are urged to purchase their own microscopes, but those who do not care to do so may rent them from the University at the following rates:

Microscope for Histological Laboratory use.....	\$3
Microscope for Bacteriological, Pathological, and Clinical Microscopy Laboratory use .....	5

#### PAYMENT OF FEES.

All fees are to be paid to the Treasurer. Tuition fees are payable quarterly, in advance. Matriculation, library, and laboratory fees are payable in full, in advance.

#### WITHDRAWALS.

A certificate of work actually done will be given to any student wishing to withdraw or transfer to some other school during the session. Written notice of such withdrawal or transfer must be filed with the Dean at the time of requesting the certificate, and the student must have paid all fees and dues chargeable against him up to the end of the quarter in which he withdraws.

#### COMMITTEE ON EMPLOYMENT FOR STUDENTS.

*Chairman.*

THE SECRETARY OF THE UNIVERSITY.

DEAN WILBUR,  
PROFESSOR HENNING,

DEAN HODGKINS,  
PROFESSOR HOUGH.

The purpose of this Committee is to aid students, especially those coming from a distance, to obtain suitable employment as a means of defraying a part or all of their expenses while in pursuit of their college course. Opportunities for such employment in Washington are exceptionally good. The many Departments of Government, the Library of Congress, Congressmen's secretaryships, law offices, contractors' and architects' offices, night schools, journalism, stenography, etc., offer a large number of positions of the most diverse kinds. While the Committee must not be understood as in any sense engaging to find employment for prospective students, in a great many cases important assistance can be rendered duly qualified applicants, if the fact of their desire to obtain employment is known. Applicants are particularly cautioned against coming to the University, intending to depend upon outside employment for support, without being provided with funds sufficient



to meet the expenses of at least the first half year. Communications should be addressed to the

*Committee on Employment for Students,  
The George Washington University,  
Washington, D. C.*

#### BOARD AND ROOMS.

A register of approved boarding houses is kept by the Treasurer. Accommodations cost from \$25 to \$40 a month.

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For catalogues, application blanks, and further information, address

THE DEAN,  
*Department of Medicine,  
The George Washington University,  
1325 H St., N. W., Washington, D. C.*

FACULTY.

CHARLES WILLIS NEEDHAM, LL.D. .... PRESIDENT OF THE UNIVERSITY  
J. ROLAND WALTON, D.D.S. .... Professor of Prosthetic Dentistry  
and Orthodontia, and Dean,  
702 10th St., N. W.  
HENRY C. THOMPSON, D.D.S. .... Professor of Operative Dentistry  
D. KERFOOT SHUTE, A.B., M.D. .... Professor of Anatomy  
CHARLES E. MUNROE, Ph.D. .... Professor of Chemistry  
THOMAS A. CLAYTOR, M.D. .... Professor of Materia Medica and  
Therapeutics  
SHEPHERD IVORY FRANZ, Ph.D. .... Professor of Physiology  
J. J. KINYOUN, M.D., Ph.D. .... Professor of Pathology and Bacteriology  
CHARLES S. WHITE, M.D. .... Professor of Oral Surgery  
HURON W. LAWSON, M.D. .... Professor of Histology and Embryology  
JONATHAN R. HAGAN, D.D.S. .... Assistant Professor of Materia Medica  
ISAAC KING PHELPS, M.D., Ph.D. .... Assistant Professor in Physiological  
Chemistry  
E. G. SEIBERT, M.D. .... Associate in Chemistry  
J. R. DEFARGES, D.D.S. .... Associate Professor of Metallurgy, Professional  
Ethics, Dental Jurisprudence, and Economics  
ALLEN S. WOLFE, D.D.S. .... Associate Professor of Crown and Bridge  
Work and Porcelain  
CHARLES BASSETT, D.D.S. .... Associate Professor in Charge of the  
Dental Infirmary  
CADMUS LINDEN ODOR, D.D.S. .... Associate Professor of Operative  
Technics and Comparative Anatomy  
W. FRANCIS LAWRENCE, D.D.S. .... Associate Professor of Prosthetic  
Technics  
NOBLE P. BARNES, M.D. .... Lecturer on Materia Medica  
S. H. GREENE, JR., M.D. .... Instructor in Anatomy  
J. L. RIGGLES, M.D. .... Instructor in Anatomy  
OTIS D. SWETT, M.S. .... Instructor in Chemistry  
C. P. SHOEMAKER, D.D.S. .... Instructor in Orthodontia Technics  
J. WINSLOW TAYLOR, D.D.S. .... Instructor in Prosthetic Technics  
HENRY CISSEL YOUNG, D.D.S. .... Instructor in Prosthetic Technics  
HERBERT C. HOPKINS, D.D.S. .... Instructor in Operative Technics  
GEORGE B. HEINECKE, M.D. .... Assistant Demonstrator of Anatomy  
W. A. FRANKLAND, M.D. .... Assistant Demonstrator of Anatomy  
M. E. HARRISON, D.D.S. .... Assistant Demonstrator in the Infirmary  
EWING MARVIN WOOD BEAR, D.D.S. .... Assistant Demonstrator in the  
Infirmary



### GENERAL STATEMENT.

The first course of lectures in the Dental School began November, 1887, under the title of "The Columbian University Dental Department." The course then extended over two years of five months each. Two years later the course was extended to seven months; but, this additional time being found inadequate to keep pace with the ever-increasing demand for higher dental education, the course was gradually increased, until now it extends over three years of eight months each.

The academic year begins on the last Wednesday in September and ends on the second Wednesday in June. The next session will begin September 29, 1909. Students should register promptly at the office of the Dean at the beginning of the session, and no student can be received and credited with a full term after ten days from the first lecture. Final examinations are held at the conclusion of the instruction in each subject. The degrees are conferred at Commencement, the first Wednesday in June, the Fall Convocation, and at the Winter Convocation, February 22. For further information communicate with the Dean of the Dental Department or the Secretary of the University.

### ADMISSION.

Candidates for matriculation must show that they are fitted by previous education to study dentistry. For this purpose they must present a satisfactory certificate of their attainments from an approved school or college, or they must pass an examination.

Candidates are admitted without examination:

(1) Upon presenting a diploma or certificate of a reputable college conferring on them the degree of A.B. or B.S., or an equivalent degree in the arts and sciences.

(2) Upon presenting a diploma or certificate of graduation from a high school, academy, or preparatory school approved by the University as maintaining an adequate standard.

(3) Upon presenting a certificate of admission to the Freshman class of an approved college.

(4) Upon presenting a certificate of admission to another dental school approved by the University as maintaining an adequate standard.

Candidates unable to comply with the foregoing requirements are admitted upon passing an examination based upon the general requirement for admission to the fourth-year high school or its equivalent, modified to meet the regulations of State Dental Boards.

The scope of the different subjects is indicated in standard high school text-books.

A candidate may offer certificates of an approved school for work done in any preparatory subjects, and will be credited with the units represented by such work. A candidate failing to pass in two of the subjects of his examination may be admitted to the first year upon the condition that he make up the deficiency before entering the second-year class. The examinations are conducted by examiners appointed by the Superintendent of Schools of the District of Columbia.

The examinations for admission will be held in June and September, at the Dental Department. An applicant deficient in either Latin or Physics, or both, may be admitted to the first-year class conditioned in those subjects, but such conditions must be made up during the first year.

#### COURSE OF INSTRUCTION.

The course of instruction extends through three years of eight months each. The subjects taught during the course are divided as follows:

First Year.	Second Year.	Third Year.
Anatomy.	Organic Chemistry.	Operative Dentistry.
Physiology.	Operative Dentistry.	Orthodontia.
General Chemistry.	Prosthetic Dentistry.	Prosthetic Dentistry.
Histology.	Pathology.	Comparative Dental
Operative Technics.	Materia Medica.	Anatomy.
Prosthetic Technics.	Operative Technics.	Oral Surgery.
Special Anatomy.	Prosthetic Technics.	Orthodontia Technics.
	Infirmery Practice.	Metallurgy.
	Bacteriology.	Prosthetic Technics.
	Dental Histology.	Infirmery Practice.
	Orthodontia Technics.	Dental Therapeutics.
		Dental Pathology.
		Dental Bacteriology.
		Dental Jurisprudence,
		Economics and
		Ethics.

These studies are further described in the following pages.

#### PROSTHETIC DENTISTRY AND ORTHODONTIA.

J. ROLAND WALTON, D.D.S. .... Professor  
C. P. SHOEMAKER, D.D.S. .... Instructor in Technics

1. Prosthetic Dentistry. All branches in this department will be under the supervision of the professor. He will deliver the lectures and



manage in person and through his assistants the quiz work and course of instruction. This system will prevent confusion in method and technical procedures.

2. Orthodontia. Junior year Orthodontia is a technical course with lectures and demonstrations. The Senior year is a review of the Junior studies with advanced lectures upon the irregularities of the teeth, local and constitutional. Each student is required to make a number of appliances upon models and practically correct cases of irregularity.

#### OPERATIVE DENTISTRY, DENTAL ANATOMY AND PATHOLOGY.

HENRY C. THOMPSON, D.D.S.....Professor

This course embraces lectures on the special anatomy and physiology of the teeth. The origin, growth, and eruption of the teeth receive minute attention, and are illustrated as their importance demands.

The methods of treating, filling, and extracting teeth receive attention in the lecture-room, and are demonstrated clinically by proficient operators. Extended consideration is given to dental pathology and therapeutics. This chair has personal supervision of the department of Operative Technic.

#### CHEMISTRY.

CHARLES E. MUNROE, Ph.D.....Professor

E. G. SEIBERT, M.D.....Associate

OTIS D. SWETT, M.S.....Instructor

The instruction in this subject embraces:

A short discussion of the principles of Physics in their relation to Chemistry, the principle of chemical philosophy, and the laws of chemical combination.

A study of the elements, metallic and non-metallic; the preparation, properties, and reaction of their different compounds and their application in dentistry; Organic Chemistry, with special attention to those organic compounds that are of practical use; laboratory instruction in the determination of acids and bases, analyses of alloys, etc.

#### PHYSIOLOGY.

SHEPHERD IVORY FRANZ, Ph.D.....Professor

TRUMAN ABBE, A.B., M.D.....Instructor

ISAAC KING PHELPS, Ph.D.....Instructor

This subject is taught in lectures, recitations and laboratory exercises. In the lectures and recitations special emphasis is placed upon those parts of physiology that have a known bearing upon dental

medicine and surgery, especially digestion, secretion and the nervous system. Three laboratory periods a week during a semester give the students first-hand knowledge of the principal facts about the general functions of tissues, and the special functions of the nervous system, the special senses, the heart, circulation, digestion, and respiration.

#### ANATOMY.

D. KERFOOT SHUTE, A.B., M.D.....	Professor
W. O. OWEN, M.D.....	Associate Professor
S. H. GREENE, JR., M.D.....	Instructor
J. L. RIGGLES, M.D.....	Instructor
J. B. HEINECKE, M.D.....	Instructor
E. P. MAGRUDER, M.D.....	Instructor
D. S. BIRTWELL, M.D.....	Instructor
VERGIL B. JACKSON, M.D.....	Instructor

The instruction in Anatomy is given in a graded course of lectures, recitations from prescribed text-books, and especially by practical work in the dissection of the cadaver. The lectures are illustrated by the use of dry and wet dissections of the cadaver, by models, diagrams, charts, and sciopticon views.

Practical work in osteology and in dissection of the head are of fundamental importance. For the study of these subjects the class is divided into sections in order to make the instruction as practical as possible. The bones of the skeleton are placed in each student's hands, and he is instructed and quizzed upon all their important features.

#### MATERIA MEDICA AND THERAPEUTICS.

THOMAS A. CLAYTOR, M.D.....	Professor
JONATHAN R. HAGAN, D.D.S.....	Assistant Professor, Dental Materia Medica and Therapeutics
NOBLE P. BARNES, M.D.....	Lecturer on Materia Medica

Instruction in these subjects embraces:

The study of crude drugs and their preparations and the art of prescribing; the physiological action of drugs in the human system; the practical application of drugs and other therapeutical agencies to the prevention and cure of diseases and the relief of suffering, together with their antidotal relation to poisons.

The subject is taught by means of lectures, recitations, and blackboard illustrations, and is made practical to as great a degree as is compatible with a sufficiently thorough understanding of its principles.

In connection with this chair is a pharmaceutical laboratory, well equipped with modern appliances, in which are taught the making of



typical preparations of the Pharmacopœia, prescription writing, and the compounding of prescriptions.

Special attention is given to those drugs that are of most value in the practice of dentistry.

#### ORAL SURGERY.

CHAS. S. WHITE, M.D. .... Professor

Instruction in this subject will consist of didactic lectures, recitations, case histories, together with clinics at regular intervals.

The lectures will deal with surgical bacteriology and pathology, surgical technique, anesthesia, wounds, hemorrhage, shock, new growths, constitutional diseases, plastic operations upon the palate and face, dislocation and fracture of the maxillæ. Charts, diagrams, photographs and stereopticon slides will supplement the lectures.

In the clinics at the Emergency Hospital, illustrative cases will be shown. The students will be expected to attend such operations which pertain to this subject.

#### HISTOLOGY

HURON W. LAWSON, M.D. .... Professor

The course in Histology consists in a systematic presentation of the subject of the minute anatomy of the various parts of the body, especial attention being devoted to the histology of the teeth and neighboring structures. The subject is presented partly by systematic lectures, and more especially by the practical study by the individual students of actual specimens under the microscope. The methods of preparation of microscopical specimens are presented and practiced in the laboratory. The projection microscope, affording valuable aid in illustrating and presenting the subject, is constantly used.

#### BACTERIOLOGY AND PATHOLOGY.

J. J. KINYOUN, M.D., Ph.D. .... Professor

WILBUR R. BRANDENBERG, M.D. .... Associate

ADAM KEMBLE, M.D. .... Instructor

The course begins with a consideration of the principles involved in the process of sterilization by dry and moist heat, the relative value and mode of application of each, and an explanation of the construction of the apparatus employed for the purpose. The use and construction of the thermostat is taken up at the same time and the student taught how he can dispense with these costly appliances in emergencies.

The composition and modes of preparation of the various nutritive media are next considered, working formulas given, and the student required to prepare them at least once in the laboratory. This is fol-

lowed by a discussion of bacteria as a class, their position in the biological world, their classification, distribution, and the general and special characters that belong to them.

After this preparatory training the various methods in use for the isolation and study of bacteria are taught by practical demonstration and practiced by the students, after which the most important pyrogenic organisms are studied in detail, giving special attention to those found in the nasal and oral cavities.

The aim of the course is chiefly to afford the students an opportunity to become practically familiar with bacteriological working methods, and to enable them to isolate and identify the bacteria present in suppurative processes, as well as to comprehend intelligently the references to micro-organisms in the current professional literature of the day.

#### PROSTHETIC TECHNICS.

W. FRANCIS LAWRENCE, D.D.S.....Associate Professor Senior Year  
J. WINSLOW TAYLOR, D.D.S.....Instructor Junior Year  
HENRY CISSEL YOUNG, D.D.S.....Instructor Freshman Year

The technic laboratories are thoroughly equipped for their particular work. The course in prosthetic technics extends through the Freshman, Junior, and Senior years.

The first year is a technical and didactic course. The students are taught the proper equipment of a dental laboratory; the preparation of the mouth for dentures; methods of taking impressions of the mouth and manipulation of the various impression materials; the preparation and mounting of models; selection and artistic arrangement of teeth; the construction of plastic dentures and crowns with general details.

In the Junior class the course is a review of the Freshman year with extended technical and didactic work, embracing a practical course in the swaging of the various metals, as taking impressions, making models and dies, swaging, rimming, attaching teeth by rubber, and in general construction of metal dentures, crown and bridge work.

The Senior year is a practical course, embracing the swaging of plates, teeth attached by soldering, clasps, porcelain work, advanced bridge-work, removable bridges, and the detailed construction of all work in prosthetic dentistry.

The work of the department is under the immediate supervision of the associate professor.

#### METALLURGY.

J. R. DEFARGIS, D.D.S.....Associate Professor

The subject of Metallurgy taught in the chemical laboratory will be reviewed and an extended course will be given in metals, alloys, and amalgams which are used in dentistry.



### PROFESSIONAL ETHICS, DENTAL JURISPRUDENCE AND ECONOMICS.

These lectures on ethics consist of a brief statement of the moral obligations of professional men to each other and to their patients and upholding the honor and dignity of the profession, the differences between the profession, business and manufacturing pursuits.

The lectures on jurisprudence will follow the text-book by Dr. Reh-fuss, which fully elucidates the legal relation of the dentist to his patients, the importance of dental records, the limitations of dental practice, the liabilities incurred by those who administer anesthetics, the penalties, etc.

Economics. This course will instruct the student in the proper methods to insure a practice and to retain patients; will discuss business relations between patients and dentists, fees, book and card systems, and the general economy in conducting an office.

### THE DENTAL INFIRMARY.

CHARLES BASSETT, D.D.S.....Associate Professor in Charge  
J. WINSLOW TAYLOR, D.D.S.....Demonstrator  
HENRY CISSEL YOUNG, D.D.S.....Demonstrator

The Infirmary is open every week day for nine continuous months (being closed during the months of July, August, and September), during which time an abundance of clinical material is readily available. In fact, as many patients present themselves as can possibly be attended to by the students. It is under the immediate supervision of the Demonstrator in charge, who is present from 1 until 6 o'clock each week day.

### OPERATIVE TECHNICS.

CADMUS L. ODOR, D.D.S.....Associate Professor  
HERBERT C. HOPKINS, D.D.S.....Instructor

This subject is taught by lectures, illustrated by enlarged models and drawings, together with demonstrations of instruments and materials. The students perform exercises in manipulative procedure under the direction of the instructors.

The subjects embraced in the course consist, first, of the study of dental nomenclature, that the student may acquire an understanding of the technical terms used in the course of his dental studies. This is followed by descriptive dental anatomy and the forms and surface markings of each tooth studied, the natural teeth, as well as enlarged models and drawings, being used for the purpose. Each student is required to make various sections of the teeth for the thorough study

of the pulp chambers and root canals and their relations to the external surfaces of the teeth.

That tooth-forms may be more perfectly impressed upon the mind of the students, each one is required to carve a tooth of the several classes, as incisor, cuspid, bicuspid, and molar, in bone or artificial ivory, representing the actual form and size of the natural organ. Cavities are classified and illustrated by drawings and models, followed by their preparation and filling in technic forms by the student. Treating and filling root canals is given full attention, the students performing operations of this kind upon natural teeth mounted for the purpose.

All work, in its relation to operative dentistry, is given the necessary consideration to fit the student for meeting, as far as possible, the actual requirements of the infirmary. The operations in the technic department require a large number of natural teeth and a sufficient supply is difficult to obtain.

#### COMPARATIVE DENTAL ANATOMY.

The senior students will study in this course the food habits and the teeth of animals. The forms of teeth and their uses as weapons of offense and defense will be studied.

#### CROWN AND BRIDGE WORK, GOLD INLAY, AND PORCELAIN.

ALLEN S. WOLFE, D.D.S.....Associate Professor

Instruction in this course is systematically given by lectures and clinics. The course in technique extends through the Freshman, Junior, and Senior years.

Students are taught the principles and practice of inlay work, porcelain crowns, high and low fusing bodies, the use of the electric and gas furnaces.

#### TEXT-BOOKS AND WORKS OF REFERENCE.

(The works first named and in *italics* are preferred.)

**Anatomy.**—*Cunningham's Text-book of Anatomy*; *Cunningham's Manual of Practical Anatomy*; Dental Anatomy, Black's.

**Physiology.**—Raymond's Human Physiology; Howell's Text-book of Physiology; Tigerstedt's Text-book of Physiology.

**Pathology and Bacteriology.**—Delafield and Prudden's Pathology; Jordan's Bacteriology.

**Chemistry.**—*Simon's Chemistry*.

**Materia Medica.**—*H. C. Wood's Therapeutics*; Hare's Practical Therapeutics; A. A. Stevens' Modern Materia Medica and Therapeutics; Culbreth's Materia Medica and Pharmacy; National Dispensatory Reference Text-books, Osborne, Wilcox, Sollmann, Shoemaker, U. S. Pharmacopœia and National Formulary.



**Prosthetic Dentistry.**—*The American Text-book of Prosthetic Dentistry*; Esseg's Dental Metallurgy.

**Operative Dentistry.**—*Harris' Principles of Practice*; Tome's Dental Anatomy and Surgery; Taft's Operative Dentistry; American System of Dentistry—Litch; Kirk's Operative Dentistry; Johnson's Operative Dentistry.

**Oral Surgery.**—Marshall's Oral Surgery; Grant's Oral Surgery.

**Histology.**—Nichols, Böhm and Davidoff; Anatomy and Histology of the Mouth, by Bromell.

**Orthodontia.**—Angle, Treatment of Malocclusion of the Teeth and Fractures of the Maxillæ; Talbot, Irregularities of the Teeth; Jackson, Orthodontia.

**Dental Jurisprudence.**—Rehfuss.

**Dental Pathology and Therapeutics.**—Burchard.

**Comparative Dental Anatomy.**—Thompson.

#### GRADUATION.

Candidates for graduation must have attended three full courses of lectures, each of eight months' duration, and three courses of clinical instruction in this Department, during the regular winter term and in separate years. Students are examined at the end of the regular course upon all subjects taught them during that course. Should the student fail in his examination in course, he may be re-examined in the fall. All fees must be paid and Infirmary requirements complied with before the student may present himself for examination.

Students must enter before, or within ten days after, the opening lecture of the regular course. They may register at any time during the nine months Infirmary course, and thus begin Infirmary practice at once upon payment of twenty-five dollars, which amount will be deducted from their tuition fees for the succeeding regular term.

The candidate for graduation must be examined upon all subjects taught in this Department, and before the examination he must perform operations upon the natural organs in the Infirmary, and present the Museum a well-constructed specimen of dental mechanism made by himself in the dental laboratory of the University.

In addition to the above requirements, the moral character and habits of the candidate, his industry, and diligent attendance will be taken into consideration. Notable negligence, immorality, or habitual absence from the lectures will preclude the candidate from attaining his degree, even though he may have acquired sufficient technical knowledge to pass a creditable examination. This reservation on the part of the Faculty of the right to make good moral character a prerequisite for graduation must not be overlooked.

The student also, during and between the sessions, must comply with the State laws regulating the practice of Dentistry, and act in accordance with the recognized code of ethics of the dental profession.

The degrees are conferred by The George Washington University, incorporated by Act of Congress of the United States.

### PRIZES.

**UNIVERSITY PRIZE.**—A prize is given by the University to the graduate passing the best examination in all branches and having the best Infirmary record.

### PRIZE AWARDS 1908-09.

The **FIRST PRIZE** for the best record throughout the course of three years is awarded to Ewing Marvin Wood Bear, whose average is 87.6 per cent.

Honorable mention is made of William Harry Barnhard, Jr., whose average is 79 per cent; Max Samuel Goldberg, whose average is 75.2 per cent.

The **J. HALL LEWIS PRIZE** for the best Prosthetician is awarded to Albert Sidney Davidson.

Honorable mention is made of Ewing Marvin Wood Bear.

The **HENRY C. THOMPSON PRIZE** for the best Operator in the Dental Infirmary, is awarded to Ewing Marvin Wood Bear.

### COURSES IN ARTS AND SCIENCES.

Students taking a full course for a degree may be admitted without additional fee, except laboratory fees, to courses for which they are qualified, in the Department of Arts and Sciences, the aggregate of such courses not to exceed six hours per week.

### LOCATION.

The Dental Building is No. 1325 H street, N. W. It is within half a square of all lines of street cars going to every part of the city.

The Dean may be seen personally at 702 10th street, N. W., on any week day and also at the Dental Building, 1325 H street, N. W., on Tuesday and Thursday of each week at 4.30 p. m. during the session.

### FEES AND CONTINGENT EXPENSES.

1. Matriculation fee (payable once).....	\$5
2. Annual library fee .....	2
3. Tuition fee per annum, including all charges for materials.....	125



4. Late registration fee in the case of students registering for the first term after October 20, or for the second term after February 20, excepting for courses which do not begin with the terms ..... \$2
5. Fee for graduation ..... 10
6. Tuition fee per annum for any year repeated once. .... 75  
In addition to the tuition fees for special or repeated laboratory courses, a charge will be made for materials used.
7. Fee for a certificate under the seal of the University. .... 2
8. Auditors are admitted to lecture courses for the regular tuition fees, but are not permitted to take active part in the work of the classes and will not be allowed credit, in a subsequent course of studies leading to a degree, for attendance as auditors. No matriculation or library fee is charged.

No change will be made in the fees fixed at registration except in case of withdrawal, and then only upon notice in due form and from the end of the current quarter session when such withdrawals shall be approved. Applications for the granting of a withdrawal should be made on the prescribed form, to be obtained from the Dean, and will only be received at the end of a quarter session.

Students are furnished microscopes at the following rates:

Microscope for histological laboratory use.....	\$3
Microscope for bacteriological, pathological, and clinical microscopy laboratory use .....	5

#### PAYMENT OF FEES.

All fees are to be paid to the Treasurer. Tuition fees are payable quarterly, in advance. Matriculation, library, and laboratory fees are payable in full, in advance.

#### BOARD AND ROOMS.

A register of approved boarding houses is kept by the Treasurer. Accommodations cost from \$25 to \$40 a month.

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For catalogues, application blanks and further information, address  
 THE SECRETARY,  
*The George Washington University,*  
*Washington, D. C.*

## NATIONAL COLLEGE OF PHARMACY.

## FACULTY.

CHARLES WILLIS NEEDHAM, LL.D., . . . . . PRESIDENT OF THE UNIVERSITY

HENRY E. KALUSOWSKI, M.D., Phar.D., . . . Professor of Pharmacy, Dean

SAMUEL WAGGAMAN, M.D., Phar.D., . . . . . Professor of Materia Medica,

Botany and Toxicology

WILLIAM F. HILLEBRAND, Ph.D., Phar.D., . . . . . Professor of Chemistry

and Physics

FREDERICK A. HOLTON, B.S., Phar.D., Professor of Analytical Chemistry

BURTON J. HOWARD, B.S., . . . . . Professor of Microscopy

HENRY B. FLOYD, Phar.D., . . . . . Professor of Mercantile Pharmacy

ALEXANDER MUNCASTER, Phar.D., LL.B., LL.M., . . . . . Professor of

Pharmaceutical Jurisprudence

HOWARD M. BRADBURY, Phar.D., . . . . . Assistant to the Professor of

Chemistry

J. WILTON GRADY, Phar.D., } . . . Assistants to the Professor of Pharmacy

LOUIS B. CASTELL, Phar.D., }

## GENERAL STATEMENT.

The National College of Pharmacy, which is the outgrowth of the Columbian Pharmaceutical Association, organized in April, 1871, was chartered under the provisions of an act of Congress in 1872, and opened its doors to students November 11, of that year. In February, 1906, it became a member of the educational system of The George Washington University, under the charter of the University granted by Congress March 3, 1905, providing for the organization of colleges. The President of the University is *ex-officio* president of the National College of Pharmacy, and the College is represented in the President's Council by its Dean.

The work of the college embraces courses in chemistry, botany, materia medica and toxicology, pharmacy and pharmaceutical laboratory work, analytical chemistry, microscopy, mercantile pharmacy, and pharmaceutical jurisprudence. Three years are required for the completion of the prescribed course.

The new College building is centrally located on I street, northwest, between Eighth and Ninth streets. It is easily reached by either of the four principal street car lines of the city.

## SPECIAL COURSES.

Students may select one or more of the branches taught and attend the lectures and laboratory work during the time set apart for such study.



Students taking single tickets are not entitled to take the examinations for the degree conferred by the College.

#### THE DEGREE

The degree conferred is *Doctor of Pharmacy*.

#### QUALIFICATIONS FOR THE DEGREE.

1. The student shall have attended three courses of instruction in Chemistry, Pharmacy, Analytical Chemistry, Materia Medica, Botany, and Toxicology, and two in Microscopy, the last of which must have been in this College; and one course each in Mercantile Pharmacy and Pharmaceutical Jurisprudence.
2. He must have passed a satisfactory examination in each of the branches taught.
3. He must be recommended by the Board of Examiners.

#### MATERIA MEDICA, BOTANY AND TOXICOLOGY.

##### FRESHMAN COURSE.

The first lectures are an introductory to the study of elementary botany, after which follow vegetable histology and plant physiology. The subject-matter of these lectures is thoroughly explained by means of charts, diagrams, and specimens.

##### JUNIOR COURSE.

This course is devoted to the consideration of the various theories concerning the vegetable world and the practical results obtained by experienced laborers in this science. The lectures are illustrated by means of the lantern and microscope. A large part of the course is devoted to a consideration of the official organic drugs.

##### SENIOR COURSE.

The lectures are mainly upon the active principles, adulterants, official preparations, therapeutic uses, and doses; after which the organic and inorganic poisons are taken up under three heads: 1st, Corrosive; 2d, Irritant; and 3d, Neurotic Poisons. Under these three divisions are explained briefly their action, detection, and antidote.

#### PHARMACY.

##### FRESHMAN COURSE.

This course is given to the study of the various pharmaceutical processes and operations. Following in the order named are lectures on

metrology, heat, thermometry, evaporation, distillation, fusion, sublimation, calcination granulation, comminution, solution, filtration, clarification, decoloration, precipitation, crystallization, and extraction, during which the various methods used to bring about the desired results will be illustrated.

#### JUNIOR COURSE.

During a part of this course the time is given to the application of the processes considered during the Freshman year to pharmacopœial preparations, and such modifications as adapt them to special uses. This includes methods for making solutions of various substances, extracts, pills, tablets, triturates, compressed tablets, capsules, powders, suppositories, plasters, ointments, cerates, and oleates.

The latter part of this course is taken up with the study of official preparations obtained from the elementary bodies beginning with bromine, chlorine, iodine, phosphorus, and sulphur, followed by carbon, boron, silicon, the inorganic acids, potassium, sodium, lithium, ammonium, magnesium, calcium, barium, zinc, aluminum, cerium, cadmium, manganese, iron, chromium, lead, silver, copper, mercury, antimony, arsenic, bismuth, and gold.

#### SENIOR COURSE.

The time during this course is mainly given to the study of compounds chiefly derived from organic matter, and products obtained therefrom, amylaceous and saccharine substances; glucosides and alkaloids, volatile oils and animal products commonly used in pharmacy, vegetable oils, soaps, resinoids and products from resins.

#### ANALYTICAL CHEMISTRY.

The instruction in this department is intended to present the chemical tests of the United States Pharmacopœia, with methods for the identification of substances and for the detection of impurities; to instruct him in the methods of assaying and the use of volumetric solutions, and to enable students to analyze any ordinary mixture of inorganic material.

For the purpose of carrying out the work of this department a large, well-equipped laboratory is provided with all the usual water and gas facilities, and has recently been wired and installed with electric apparatus whereby electro-chemical methods of analysis can be taught and the application of the electric current to the preparation of chemicals by the methods of electro-chemistry can be illustrated before the students. These and other facilities afford students exceptional opportu-



nities to become familiar with the fundamental principles of the science of chemistry.

The first year is devoted to experimental work so arranged as to supplement the lectures in General Chemistry.

The second year covers a systematic course in qualitative analysis in connection with the tests of the United States Pharmacopœia.

The third year is devoted to volumetric analysis by means of the standard solutions of the Pharmacopœia.

#### GENERAL CHEMISTRY AND PHYSICS.

Inasmuch as the subjects of Analytical Chemistry and Pharmacy are fully provided for in other courses, these lectures are devoted more closely to the fundamental principles and classification which must underlie a thorough and systematic knowledge of Chemistry. Owing to the intimate connection existing between Chemistry and several branches of Physics, a number of lectures illustrating the more important laws and principles of some of these branches precedes the regular course in Chemistry, and others on these subjects with which a prior acquaintance is less important follow after the student has acquired some knowledge of chemical changes. During the first half of the second year Physics and the non-metallic elements receive consideration, followed during the remainder of the second and a portion of the third year by the metals. The greater portion of the third year is devoted to the exposition of the more important facts, principles, and theories of Organic Chemistry.

#### MICROSCOPY.

The course of Microscopy gives instruction in the use of the compound microscope as an aid in the study and identification of drugs, and requires full attendance from Junior and Senior students.

The work includes both lectures and laboratory courses, and consists in the examination of plant tissue as illustrated in various vegetable substances most familiar to pharmacists. Special attention is given to the structural characteristics by which one drug can be distinguished from another as well as to the detection and identification of the most common adulterants used.

#### MERCANTILE PHARMACY AND PHARMACEUTICAL JURISPRUDENCE.

These courses are required in the Senior class only.

## FEES.

Matriculation .....	\$5
Tickets for the full year's course of instruction, Freshman or Junior.	70
Tickets for the full year's course of instruction, Senior.....	80
Single tickets for Chemistry, Materia Medica, Botany and Toxicology, each .....	15
Single tickets for Analytical Chemistry.....	20
Single tickets for Practical Pharmacy.....	20
Single tickets for Microscopy.....	10
Single tickets for Mercantile Pharmacy.....	5
Single tickets for Pharmaceutical Jurisprudence.....	5
Fee for Diploma.....	10

## SCHEDULE.

The thirty-eighth annual session of the College will begin on Wednesday, September 22, 1909, and close on Wednesday, June 1, 1910.

Monday.	Tuesday.	Wednesday.
<b>FRESHMEN.</b> Botany. Lectures and Recitations, 10 to 11 a. m.	<b>SENIORS.</b> Microscopy. Lectures, Laboratory Work and Recitations, 6 to 8 p. m.	<b>FRESHMEN.</b> Physics and General Chemistry. Lectures and Recitations, 6 to 7 p. m.
Pharmacy. Lectures and Recitations, 11 a. m. to 12 m. Recess, 12 m. to 12.30 p. m.	Mercantile Pharmacy. 8 to 10 p. m.	Analytical Chemistry Lectures, Recitations and Laboratory Work, 7 to 11 p. m.
Pharmacy. Laboratory Work, 12.30 to 4 p. m.	Pharmaceutical Juris- prudence. Jan. 12 to close of Term. 8 to 9 p. m.	
<b>JUNIORS.</b> Physics and General Chemistry. Lectures and Recitations, 6 to 7 p. m.		
Analytical Chemistry Lectures, Recitations and Laboratory Work, 7 to 11 p. m.		



## SCHEDULE.

Thursday.	Friday.	Saturday.
<p>SENIORS.</p> <p>Materia Medica and Toxicology.</p> <p>Lectures and Recitations, 10 to 11 a. m.</p> <p>Pharmacy.</p> <p>Lectures and Recitations, 11 a. m. to 12 m.</p> <p>Recess, 12 m. to 12.30 p. m.</p> <p>Pharmacy.</p> <p>Laboratory Work, 12.30 p. m. to 4 p. m.</p> <p>JUNIORS.</p> <p>Microscopy.</p> <p>Lectures, Laboratory Work and Recitations, 6 to 8 p. m.</p>	<p>SENIORS.</p> <p>General and Organic Chemistry.</p> <p>Lectures and Recitations, 6 to 7 p. m.</p> <p>Quantitative Chemical Analysis.</p> <p>Lectures and Recitations, 7 to 11 p. m.</p>	<p>JUNIORS.</p> <p>Botany and Materia Medica.</p> <p>Lectures and Recitations, 10 to 11 a. m.</p> <p>Pharmacy.</p> <p>Lectures and Recitations, 11 a. m. to 12 m.</p> <p>Recess, 12 m. to 12.30 p. m.</p> <p>Pharmacy.</p> <p>Laboratory Work, 12.30 p. m. to 4 p. m.</p>

Entrance examination at 1 p. m. on Thursday, September 16, 1909, in the lecture-room of the College. Annual examination of Freshmen and Juniors for promotion and of Seniors for graduation begins on Wednesday, April 29, 1910.

For further information consult the Dean, Henry E. Kalusowski, 808 I St., N. W.

## COLLEGE OF VETERINARY MEDICINE.

## BOARD OF TRUSTEES.

J. A. T. HALL.	DAVID E. BUCKINGHAM, V.M.D.
H. ROZIER DULANEY.	JOHN LOCKWOOD, V.S.
WILLIAM CORCORAN EUSTIS.	JOHN P. TURNER, V.M.D.

## FACULTY.

CHARLES WILLIS NEEDHAM, LL.D.....	PRESIDENT OF THE UNIVERSITY
DAVID E. BUCKINGHAM, V.M.D.....	Professor of Materia Medica, Therapeutics, and Canine Practice; Dean
CHARLES E. MUNROE, Ph.D.....	Professor of Chemistry
SHEPHERD IVORY FRANZ, Ph.D.....	Professor of Physiology
JOHN LOCKWOOD, D.V.S.....	Professor of Veterinary Surgery
JOHN P. TURNER, V.M.D.....	Professor of Theory and Practice of Veterinary Medicine
ROBERT J. FORMAD, V.M.D., M.D.....	Professor of Comparative Histology and Pathology
J. J. KINYOUN, Ph.D., M.D.....	Professor of Bacteriology and Pathology
ADOLPH EICHORN, D.V.S.....	Professor of Meat Hygiene
ALBERT H. HASSAL, M.R.C.V.S.....	Professor of Veterinary Zoölogy
GEORGE H. HART, V.M.D., M.D.....	Professor of Sanitary Science and National Quarantine
BENJAMIN T. WOODWARD, V.M.D.....	Professor of Milk Hygiene and Dairy Inspection
ADRIAN V. HALL, V.M.D.....	Professor of Veterinary Anatomy
.....	Professor of Animal Husbandry and Breeding
R. J. STAFFORD, D.V.M.....	Assistant Professor of Anatomy
HULBERT YOUNG, V.M.D.....	Lecturer on Horse Shoeing and Demonstrator of Anatomy
WILLIAM P. COLLINS, D.V.S.....	Instructor in Clinical Veterinary Surgery

## ANNOUNCEMENT.

The organization of a College of Veterinary Medicine under the charter of The George Washington University was authorized by the Board of Trustees, on March 17, 1908. The great demand for the services of trained veterinarians by the Federal and State governments and the increasing importance of veterinary science in municipal hygiene show the need of the development of this branch of medical science in Washington in a regularly organized college under University auspices.



The headquarters, libraries, laboratories and experimental farms of the Bureau of Animal Industry of the Department of Agriculture are located in the District of Columbia, so that students of the College of Veterinary Medicine may keep closely in touch with the most recent investigations in veterinary science. The Administration Building and two hospital buildings of the College are located at 2113-2115 Fourteenth street, N. W. In this building are the Dean's office, library, pharmacy, and faculty, reception, and operating rooms. The veterinary hospital and the canine hospital are equipped with all appliances for the cure and relief of sick and injured animals.

In addition to demonstrations in the hospitals, students receive clinical instruction in the private hospitals of Professors John P. Turner and John Lockwood. Clinics are held at abattoirs and stockyards under governmental inspection and visits to stock and dairy farms in company with clinical professors are required.

The hours of instruction are so arranged that clerks in Government employ can take the course.

A separate statement regarding the courses of study and the matriculation of students will be mailed upon application to all persons addressing the Secretary of the University or the Dean of the College of Veterinary Medicine, 2113 Fourteenth street, N. W., Washington, D. C.

PART III.

STUDENTS IN THE UNIVERSITY.

DEGREES CONFERRED, MISCELLANEA.





# Students in the University.

## DEPARTMENT OF ARTS AND SCIENCES.

### GRADUATE STUDIES.

#### In Attendance.

Name.	Legal residence.	City address.
Clark, Burton William.....	N. Y. ....	927 Rhode Island Ave.
B.S., 1907, M.S., 1908, Syracuse University.		
<i>Topic</i> —Geology.		
Cole, Frank .....	Okla. ....	College Park, Md.
B.S., 1908, Oklahoma Agricultural and Mechanical College.		
<i>Topic</i> —Chemistry.		
Deal, Alice .....	Md. ....	The Susquehanna.
A.B., 1899, Woman's College, Baltimore, Md.		
<i>Topic</i> —Physics.		
Fox, Paul Jefferson.....	Ill. ....	Bureau of Chemistry.
B.Sc., 1900, University of Chicago.		
<i>Topics</i> —Chemistry, Geology, Bacteriology.		
Garton, Alfred Clarke.....	Mich. ....	2140 N Street.
M.D., 1907, The George Washington University.		
<i>Topics</i> —Bacteriology, Bio-chemistry, French.		
Gates, Edward Percy.....	Ark. ....	3506 Center Street.
B.A., 1908, The George Washington University.		
<i>Topics</i> —Economics.		
Huntington, Carl Douglas.....	N. Y. ....	Patent Office.
A.B., 1908, Hamilton College.		
<i>Topics</i> —Chemistry, Physics.		
Jacobsen, Karl Theodore.....	Wis. ....	218 A Street, S. E.
B.A., 1902, Luther College.		
M.A., 1906, University of Wisconsin.		
<i>Topics</i> —Greek, Latin.		
Nolan, Thomas Brew, Jr.....	D. C. ....	The Hawarden.
B.S., 1907, Pennsylvania State College.		
<i>Topics</i> —Civil Engineering, Hydraulic Engineering.		
Palmore, Julian Ivanhoe.....	Va. ....	Bureau of Chemistry.
B.S., 1902, M.S., 1904, Virginia Polytechnic Institute.		
<i>Topic</i> —Chemistry.		
Pollock, William McCally.....	W. Va. ....	332 Indiana Ave.
A.B., 1898, University of West Virginia.		
<i>Topic</i> —Chemistry.		



Name.	Legal residence.	City address.
Turkenton, William James.....	D. C. ....	1513 33d Street.
B.S., in C.E., 1908, The George Washington University.		
<i>Topic</i> —Advanced Masonry.		
Valaer, Peter, Jr.....	N. C. ....	421 P Street.
B.S., in Chem., 1906, North Carolina Agricultural and Mechanical College.		
<i>Topic</i> —Chemistry.		
Whitehead, John Roy.....	Ohio .....	War Department.
E.E., 1907, Purdue University.		
<i>Topic</i> —Mathematics.		

## Doctor of Civil Law.

Miller, Clarence Alphonso.....	Mo. ....	Matamoras, Mexico.
LL.B., 1899, Kansas City School of Law.		
LL.M., 1905, M. Dip., 1906, The George Washington University.		
Shibley, George Henry.....	D. C. ....	The Ontario.

## Civil Engineer.

Adams, Raymond Edmond.....	Pa. ....	707 22d Street.
A.B., 1891, Central High School, Philadelphia, Pa.		
Senior, Thomas Richard.....	D. C. ....	203 Elm Street.
B.S., in C.E., 1908, The George Washington University.		
Starr, Frank Charles.....	Nova Scotia.	1530 I Street.
S.B., 1905, Massachusetts Institute of Technology.		

## Electrical Engineer.

Gordon, Hayner Haskell.....	Ohio .....	1310 Girard Street.
B.S., in C.E., 1908, The George Washington University.		
Honn, Harlan Verne.....	D. C. ....	400 8th Street, N. E.
B.S. in E.E., 1909, The George Washington University.		
Mortimer, Charles Ward.....	Miss. ....	1530 I Street.
B.S., 1902, Mississippi College.		
M.E., 1907, Cornell University.		
Steele, Frank Bailey.....	W. Va. ...	2024 G Street.
Graduate from Virginia Military Institute.		

## Master of Science.

Allen, Edward Riley.....	Ill. ....	1225 11th Street.
B.L.A., 1906, University of Illinois.		
<i>Topics</i> —Major, Chemistry; Minors, German, Geology.		

- | Name.  | Legal residence. | City address.                       |
|--|------------------|-------------------------------------|
| Birtwell, Bertha .....   | D. C. ....       | The Congressional.                  |
| A.B., 1908, The George Washington University.  |                  |                                     |
| <i>Topics</i> —Major, Mathematical Physics; Minors, Mathematics, Astronomy.                |                  |                                     |
| Boughton, Everett William.....   | N. Y. ....       | 917 16th Street.                    |
| B.S. in Chemistry, 1903, Polytechnic Institute of Brooklyn.                                |                  |                                     |
| <i>Topics</i> —Major, Chemistry; Minors, Bacteriology, Pathology, Physiology.              |                  |                                     |
| Kibler, Alton Lewin.....   | Va. ....         | 1323 R Street.                      |
| A.B., 1904, Randolph-Macon College.  |                  |                                     |
| <i>Topics</i> —Major, Chemistry; Minors, Agricultural Chemistry, Bacteriology.             |                  |                                     |
| McElfresh, Ralph Finley.....   | D. C. ....       | 309 M Street.                       |
| C.E., 1908, Lehigh University.   |                  |                                     |
| <i>Topics</i> —Major, Economics; Minors, Mathematics, Hydraulic Engineering.               |                  |                                     |
| Sanders, Frances .....   | D. C. ....       | 1360 Kenyon Street.                 |
| B.S., 1901, Columbian University.  |                  |                                     |
| <i>Topics</i> —Major, Mathematics; Minors, Applied Mechanics, Psychology.                  |                  |                                     |
| Shively, Robert Rex.....   | Okla. ....       | 1221 O Street.                      |
| B.S., 1902, Oklahoma Agricultural and Mechanical College.                                  |                  |                                     |
| <i>Topics</i> —Major, Chemistry; Minors, German, Microscopic Foods and Drugs.              |                  |                                     |
| Sterrett, John Adlum.....  | D. C. ....       | Springland, Pierce Mill Road, D. C. |
| B.S., 1908, The George Washington University.  |                  |                                     |
| <i>Topics</i> —Major, Electrical Engineering; Minors, Mechanical Engineering, Mathematics. |                  |                                     |
| Swett, Otis Dow.....   | Md. ....         | Chevy Chase, Md.                    |
| LL.B., 1891, LL.M., 1892, Columbian University.  |                  |                                     |
| B.S., 1904, The George Washington University.  |                  |                                     |
| <i>Topics</i> —Major, Chemistry; Minor, Chemistry.   |                  |                                     |

#### Master of Arts.

- |  |            |                      |
|--|------------|----------------------|
| Allis, Frank Coy.....  | N. Y. .... | 1751 Willard Street. |
| LL.B., 1903, Cornell University.                                 |            |                      |
| LL.M., 1906, A.B., 1908, The George Washington University.       |            |                      |
| <i>Topics</i> —Major, Economics; Minors, Political Science, Law. |            |                      |
| Baker, Anthusa Jeanette.....                                     | D. C. .... | 62 Rhode Island Ave. |
| A.B., 1907, Wittenberg College.                                  |            |                      |
| <i>Topics</i> —Major, Education; Minors, Greek, Latin.           |            |                      |



Name.	Legal residence.	City address.
Baldwin, Edward Damon.....	Ore. ....	1736 G Street.
B.L., 1906, Whitman College.		
<i>Topics</i> —Major, Sociology; Minors, Public Law, Political Science.		
Barbour, Alice Maud.....	Conn. ....	1738 N Street.
B.S., 1893, Wellesley College.		
<i>Topics</i> —Major, English; Minors, English, Sociology.		
Barney, Ellen Sybil.....	Wis. ....	The Hamilton.
B.A., 1903, University of Wisconsin.		
<i>Topics</i> —Major, History; Minors, German, English.		
Churchill, George Morton.....	Mass. ....	118 5th Street, S. E.
A.B., 1896, Boston University.		
<i>Topics</i> —Major, History; Minors, History, Political Science.		
Drummond, Mary Walter.....	D. C. ....	1262 Columbia Road.
A.B., 1905, Woman's College of Baltimore.		
<i>Topics</i> —Major, Education; Minors, Psychology, Latin.		
Ely, Selden Marvin.....	D. C. ....	50 S Street.
LL.B., 1894, LL.M., 1895, B.A., 1908, The George Washington University.		
<i>Topics</i> —Major, Education; Minors, Psychology, Sociology.		
Gudmunsen, Marian A. (Mrs.)...	Idaho ....	1219 I Street.
A.B., 1903, University of Utah.		
<i>Topics</i> —Major, Sociology; Minors, English, History.		
Hare, Butler Black.....	S. C. ....	1404 L Street.
A.B., 1899, Newberry College.		
<i>Topics</i> —Major, History; Minors, Economics, Political Science.		
Hopson, Howard Colwell.....	Wis. ....	Interstate Commerce Commission.
B.A., 1908, The George Washington University.		
<i>Topics</i> —Major, Political Science; Minors, Political Economy, History.		
Kramer, Stephen Elliott.....	D. C. ....	1318 S Street.
B.S., 1906, The George Washington University.		
<i>Topics</i> —Major, Education; Minors, Psychology, Education.		
Lampson, Lawrence Vincent.....	Ohio ....	1011 B Street, N. E.
A.B., 1906, Oberlin College.		
<i>Topics</i> —Major, English; Minors, History, Education.		
Lowe, Henry Francis.....	D. C. ....	215 5th Street, N. E.
L.I., 1890, College of William and Mary.		
B.S., 1903, The George Washington University.		
<i>Topics</i> —Major, Education; Minors, Education, Sociology.		

Name.	Legal residence.	City address.
McAvoy, Catharine Agatha.....	D. C. ....	1917 17th Street.
A.B., 1908, The George Washington University.		
Topics—Major, Latin; Minors, French, German.		
Miller, Alvin Wilson.....	Ill. ....	2914 N Street.
B.S., 1908, The George Washington University.		
Topics—Major, Mathematics; Minors, Electrical Engineering, Physics.		
Nin-Frias, Albert .....	Uruguay ..	1410 21st Street.
B.A.S., 1907, Montevideo University.		
Topics—Major, Sociology; Minors, Philosophy, English.		
Owens, Oscar Lee.....	Md. ....	Cambridge, Md.
B.D., 1905, Rochester Theological Seminary.		
Topics—Major, English; Minors, Philosophy, Sociology.		
Paddock, Ernest Moorhead.....	Pa. ....	934 North Ave., Allegheny, Pa.
B.A., 1894, University of Pennsylvania.		
Graduate, 1897, Episcopal Theological School, Cambridge, Mass.		
Topic—Philosophy.		
Schoenfeld, Hans Fr. Arthur....	D. C. ....	3448 34th Place, Cleveland Park.
B.A., 1907, The George Washington University.		
Topics—Major, History; Minors, History, English.		
Simmons, William Wyatt.....	Miss. ....	708 10th Street.
B.A., 1905, Mississippi College.		
Topics—Major, Sociology; Minors, Economics, History.		
Stevens, William Spring.....	Me. ....	1012 14th Street.
A.B., 1906, Colby College.		
Topics—Major, Political Science; Minors, International Law, Economics.		
Sullivan, Francis Paul.....	D. C. ....	1823 U Street.
A.B., 1904, Georgetown University.		
Topics—Major, Architecture; Minors, Philosophy, Classical Archaeology, Architecture.		
Thomas, William John Denziloe..	D. C. ....	1530 29th Street.
Topics—Major, History; Minors, Philosophy, Sociology.		
Van Vleck, William Cabell.....	D. C. ....	800 E Street, N. E.
B.A., 1908, The George Washington University.		
Topics—Major, History; Minors, Economics, Education.		
Walsh, Daniel Michael.....	Vt. ....	U. S. Bureau of Chemistry, St. Paul, Minn.
B.S., 1904, University of Vermont.		
Topics—Major, Economics; Minors, History, Political Theories.		



Name.	Legal residence.	City address.
Watkins, Rhoda .....	Penna. ....	1412 14th Street.
A.B., 1906, The George Washington University.		
<i>Topics</i> —Major, English; Minors, English, German.		
White, Emilie Margaret.....	D. C. ....	1568 University Place.
A.B., 1907, The George Washington University.		
<i>Topics</i> —Major, German; Minor, History.		
Wrightson, James Owens.....	D. C. ....	812 20th Street.
A.B., 1909, The George Washington University.		
<i>Topics</i> —Major, Sociology; Minors, Semitics, History.		
Young, Julia Elektra Ludlow		
(Mrs.) .....	N. Y. ....	Nat'l Cathedral School.
B.A., 1906, Barnard College, Columbia University.		
<i>Topics</i> —Major, Latin; Minors, Greek, Archæology.		

## Doctor of Jurisprudence.

Willard, Charles Franklin.....	Mass. ....	1340 Girard Street.
B.S. in M.E., 1901, B.S. in Naval Architecture,		
1902, Massachusetts Institute of Technology.		
J.B., 1906, J.M., 1907, Boston University Law		
School.		
<i>Topics</i> —Major, Corporations; Minors, Constitu-		
tional Law, Corporation Finance.		

## Doctor of Philosophy.

Alden, Levi Russell.....	D. C. ....	809 L Street.
B.A., 1903, M.A., 1904, Columbian University.		
<i>Topics</i> —Major, History; Minors, Law, History.		
Backus, Cyrus Day.....	N. Y. ....	U. S. Patent Office.
Ph.B., 1896, LL.B., 1896, Cornell University.		
B.S., 1904, Columbian University.		
M.S., 1905, The George Washington University.		
<i>Topics</i> —Major, Electrical Engineering; Minors,		
Physics, Chemistry.		
Bates, Carleton .....	Mass. ....	205 D Street.
B.S., 1908, Boston University.		
<i>Topics</i> —Major, Bacteriology; Minors, Biochemistry,		
German.		
Betts, Philander .....	N. J. ....	The Oakland.
B.S., 1891, M.S., 1895, Rutgers College.		
E.E., 1903, Columbian University.		
<i>Topics</i> —Major, Electrical Engineering; Minors,		
Chemistry, Mathematics.		
Bolger, William Augustine.....	Mich. ....	Holy Cross College,
		Brookland, D. C.
Ph.B., 1907, University of Notre Dame.		
<i>Topics</i> —Major, Economics; Minors, Sociology, Polit-		
ical Science.		

- | Name.   | Legal residence. | City address.          |
|---|------------------|------------------------|
| Church, Calvin Grant.....   | Md. ....         | 111 12th Street, S. E. |
| B.S., 1900, Maryland Agricultural College.  |                  |                        |
| M.S., 1902, Columbian University.   |                  |                        |
| Topics—Major, Chemistry; Minor, Chemistry.  |                  |                        |
| Clark, Marion .....   | Md. ....         | 1329 N Street.         |
| B.A., 1901, M.A., 1903, Western Maryland College.                                     |                  |                        |
| Topics—Major, History; Minors, Law, Political Science.                                |                  |                        |
| Coffey, George Nelson.....  | N. C. ....       | Bureau of Soils.       |
| Ph.B., 1900, University of North Carolina.  |                  |                        |
| M.S., 1908, The George Washington University.   |                  |                        |
| Topics—Major, Geology; Minors, Mineralogy, Meteorology.                               |                  |                        |
| Custis, Horace Hatch.....   | D. C. ....       | 912 15th Street.       |
| A.B., 1906, Johns Hopkins University.   |                  |                        |
| M.A., 1908, The George Washington University.   |                  |                        |
| Topics—Major, Chemistry; Minors, Geology, Bacteriology.                               |                  |                        |
| Deis, John Homer.....   | D. C. ....       | 119 B Street, S. E.    |
| LL.B., 1902, Columbian University.  |                  |                        |
| M.A., 1908, The George Washington University.   |                  |                        |
| Topics—Major, History; Minors, History, Sociology.                                    |                  |                        |
| Doyle, Aida Mary.....   | Pa. ....         | 1123 Dartmouth Street. |
| B.S., 1898, M.S., 1899, Columbian University.   |                  |                        |
| Topics—Major, Agricultural Chemistry; Minors, Chemistry, Microscopic Foods and Drugs. |                  |                        |
| Edler, August Friedrich W.....  | Germany ..       | 3513 Center Street.    |
| B.A., 1906, M.A., 1907, M. Dip., 1908, The George Washington University.              |                  |                        |
| Topics—Major, Germanics; Minors, Political Theory, History.                           |                  |                        |
| Frost, Wesley .....   | Ky. ....         | 1117 17th Street.      |
| A.B., 1907, Oberlin College.  |                  |                        |
| Topics—Major, Economics; Minors, Law, History.  |                  |                        |
| Gardner, James Henry.....   | Ky. ....         | Geological Survey.     |
| B.S., 1900, M.S., 1906, Kentucky State College.                                       |                  |                        |
| Topics—Major, Geology; Minors, Geology, Zoology.                                      |                  |                        |
| Gilbert, Walter Merwin.....   | N. Y. ....       | Bond Building.         |
| B.S., 1899, College of City of New York.  |                  |                        |
| Topics—Major, Philosophy; Minors, Philosophy, English.                                |                  |                        |
| Hall, Percival .....  | D. C. ....       | Kendall Green.         |
| A.B., 1892, Harvard University.   |                  |                        |
| M.A., 1893, Gallaudet College.  |                  |                        |
| M.A., 1898, Columbian University.   |                  |                        |
| Topics—Major, Mathematics; Minors, Applied Mathematics, Astronomy.                    |                  |                        |



Name.	Legal residence.	City address.
Heth, Eva Virginia.....	D. C. ....	1759 Church Street.
A.B., 1892, A.M., 1893, Columbian University.		
<i>Topics</i> —Major, Latin; Minors, German, Classical Archaeology.		
Hillyer, William Eldridge.....	D. C. ....	1365 Park Road.
B.S., 1899, M.S., 1900, Columbian University.		
<i>Topics</i> —Major, Chemistry; Minors, Chemistry, Electrical Engineering.		
Hinman, Ida .....	Iowa .....	727 Morgan Street, Keokuk, Iowa.
B.S., 1892, A.M., 1902, Columbian University.		
<i>Topics</i> —Major, English; Minors, German, French.		
Houghton, Harry Wilson.....	Md. ....	Bureau of Chemistry.
B.S. in Chemistry, 1906, M.S., 1907, The George Washington University.		
<i>Topics</i> —Major, Chemistry; Minors, Anatomy, Histology.		
Huddle, John Thomas.....	Va. ....	738 11th Street.
A.B., 1891, A.M., 1896, Roanoke College.		
Diploma in Divinity, 1896, Gettysburg Theological Seminary.		
<i>Topics</i> —Major, Psychology; Minors, Sociology, English.		
Kibler, Alton Lewis.....	Va. ....	1323 R Street.
A.B., 1904, Randolph-Macon College.		
<i>Topics</i> —Major, Chemistry; Minors, Agricultural Chemistry, Bacteriology.		
Kibler, Thomas Latimer.....	Va. ....	1323 R Street.
A.B., 1904, Randolph-Macon College.		
M.A., 1908, The George Washington University.		
<i>Topics</i> —Major, Economics; Minors, European Diplomacy, Sociology.		
Kimball, Herbert Harvey.....	N. H. ....	Library, U. S. Weather Bureau.
B.S., 1884, New Hampshire College of Agriculture and Mechanic Arts.		
M.S., 1900, Columbian University.		
<i>Topics</i> —Major, Astro-Physics; Minor, Meteorology.		
Lyon, Marcus Ward, Jr.....	N. J. ....	National Museum.
Ph.B., 1897, Brown University.		
M.S., 1900, M.D., 1902, Columbian University.		
<i>Topics</i> —Major, Zoölogy; Minors, Neurology, Histology.		
McBryde, Charles Neil.....	Va. ....	1736 G Street.
B.S., 1891, University of South Carolina.		
M.S., 1893, The Virginia Polytechnic Institute.		
M.D., 1897, The Johns Hopkins University.		
<i>Topics</i> —Major, Preventive Medicine; Minors, Botany, Geology.		

- | Name.  | Legal residence. | City address.   |
|--|------------------|---|
| MacDonald, Donald Francis.....   | Wash. ....       | Geological Survey.  |
| B.S., 1905, University of Washington State.                              |                  |   |
| M.S., 1906, The George Washington University.                            |                  |   |
| <i>Topics</i> —Major, Geology; Minors, Paleontology,<br>English.         |                  |   |
| Mattern, John .....  | Germany ..       | 431 6th Street.   |
| 1904, <i>abitur</i> , Cleve Gymnasium.                                   |                  |   |
| 1904-6, Universities of Münster and Bonn.                                |                  |   |
| <i>Topics</i> —Major, German; Minors, Latin, Greek.                      |                  |   |
| Mattern, Louis Wilson.....   | Pa. ....         | McKinley School.  |
| B.S., 1894, Pennsylvania State College.                                  |                  |   |
| <i>Topics</i> —Major, Chemistry; Minor, Chemistry.                       |                  |   |
| Mills, Joseph Strayer.....   | Md. ....         | High School of Com-<br>merce, New York City.                    |
| B.A., 1890, M.A., 1893, Western Maryland Col-<br>lege.                   |                  |   |
| <i>Topics</i> —Major, Chemistry; Minors, Mineralogy,<br>Physics.         |                  |   |
| Newberne, Robert Edward Lee...   | Texas ....       | Bureau of Health, In-<br>terior Dept., Philip-<br>pine Islands. |
| M.D., 1893, Georgetown University.                                       |                  |   |
| D.D.S., 1898, Tacoma College Dental Surgery.                             |                  |   |
| B.S., 1901, M.S., 1901, Columbian University.                            |                  |   |
| <i>Topics</i> —Major, Neurology; Minors, Anatomy,<br>Physiology.         |                  |   |
| Nin-Frias, Albert .....  | Uruguay ..       | 1410 21st Street.   |
| B.A.S., 1907, Montevideo University.                                     |                  |   |
| <i>Topics</i> —Major, Sociology; Minors, Philosophy,<br>English.         |                  |   |
| Orth, Henry, Jr.....   | D. C. ....       | 1011 L Street.  |
| M.E., 1893, Lehigh University.   |                  |   |
| M.S., 1899, Columbian University.  |                  |   |
| <i>Topics</i> —Major, Chemistry; Minor, Chemistry.                       |                  |   |
| Patrick, George Edward.....  | Iowa ....        | Dept. of Agriculture.   |
| B.S., 1893, M.S., 1894, Cornell University.                              |                  |   |
| <i>Topics</i> —Major, Chemistry; Minors, Bacteriology,<br>Chemistry.     |                  |   |
| Phalen, William Clifton.....   | Mass. ....       | Geological Survey.  |
| S.B., 1899, S.M., 1902, Massachusetts Institute of<br>Technology.        |                  |   |
| <i>Topics</i> —Major, Geology; Minors, Petrography,<br>Paleontology.     |                  |   |
| Pierce, Ulysses Grant Baker.....   | D. C. ....       | 1616 Riggs Place.   |
| B.D., 1890, Hillsdale College.   |                  |   |
| <i>Topics</i> —Major, Philosophy; Minors, <i>Æsthetics</i> ,<br>English. |                  |   |



Name.	Legal residence.	City address.
Portner, Edward George.....	D. C. ....	Alexandria, Va.
B.S., 1897, M.S., 1898, Columbia University.		
<i>Topics</i> —Major, Chemistry; Minor, Chemistry.		
Roark, Ruric Creegan.....	Ky. ....	900 14th Street.
B.A., 1907, University of Cincinnati.		
M.A., 1908, University of Illinois.		
<i>Topics</i> —Major, Bacteriology; Minors, Materia Medica, Pharmacology.		
Ross, George Albert.....	Mo. ....	2518 13th Street.
B.A., 1893, William Jewell College.		
M.A., 1898, Columbia University.		
<i>Topics</i> —Major, Mathematics; Minors, Education, Applied Mathematics.		
Shepherd, William Thomas.....	Ark. ....	442 Massachusetts Ave.
B.Sc., 1899, Ph.D., 1901, Gale College.		
M.A., 1905, M.S., 1906, Oklahoma State University.		
<i>Topics</i> —Major, Psychology; Minors, Philosophy, Education.		
Smith, John William.....	D. C. ....	125 11th Street, N. E.
A.B., 1901, Randolph-Macon College.		
<i>Topics</i> —Major, Philosophy; Minors, History, Semitics.		
Solyom, Herbert Louis.....	Md. ....	U. S. Patent Office.
B.S., 1902, M.S., 1903, Columbia University.		
<i>Topics</i> —Major, Astro-Physics; Minors, Economics, Meteorology.		
Stevens, William Spring.....	Me. ....	1012 14th Street.
A.B., 1906, Colby College.		
<i>Topics</i> —Major, Political Science; Minors, International Law, Economics.		
Stiles, George Whitfield, Jr.....	Okla. ....	4820 Iowa Ave.
B.S., 1900, Oklahoma Agricultural and Mechanical College.		
M.D., 1905, The George Washington University.		
<i>Topics</i> —Major, Bacteriology; Minors, Biochemistry, Medicine.		
Townsend, Chas. Henry Tyler...	D. C. ....	National Museum.
B.S., 1908, The George Washington University.		
<i>Topics</i> —Major, Zoölogy; Minors, Geology, Botany.		
Waring, Luther Hess.....	Pa. ....	1503 30th Street.
Graduate of Lutheran Theological Seminary, Gettysburg, Pa., 1896.		
B.A. (pro forma), The George Washington University.		
M.A., 1904, Columbia University.		
<i>Topics</i> —Major, Germanics; Minors, Philosophy, Political Science.		

Name.	Legal residence.	City address.
Wilkinson, Oscar .....	Miss. ....	1404 L Street.
M.D., 1896, Tulane University.		
Ph.B., 1902, University of Mississippi.		
M.A., 1903, Columbian University.		
<i>Topics</i> —Major, Physiological Optics; Minors, Therapeutics, Medicine.		
Witherspoon, Thomas Alfred....	Tenn. ....	26 Iowa Circle.
1883, Graduated from U. S. Naval Academy.		
LL.B., 1891, M.S., 1897, Columbian University.		
<i>Topics</i> —Major, Chemistry; Minors, Chemistry, Electricity.		
Woodward, Sherman Melville...	Ariz. ....	Dept. of Agriculture.
M.S., 1893, Washington University, St. Louis.		
M.A., 1896, Harvard University.		
<i>Topics</i> —Major, Applied Mathematics; Minors, Mechanical Engineering, Hydraulic Engineering.		
Wrightson, James Owens.....	D. C. ....	812 20th Street.
<i>Topics</i> —Major, Sociology; Minors, Semitics, History.		
Zerhusen, Frank Xavier.....	Ky. ....	Holy Cross College, Brookland, D. C.
A.B., 1906, University of Notre Dame.		
<i>Topics</i> —Major, German; Minors, German, Semitics.		

#### UNDERGRADUATE COLLEGES AND DIVISIONS.

The following list includes all undergraduate students. The registration is indicated by the abbreviations: C.C. for Columbian College; Eng. for Washington College of Engineering; Arch. for Division of Architecture; Ed. for Division of Education. The letters c., e., and m., after the abbreviation Eng., indicate that the student is a candidate for the bachelor's degree in Civil, Electrical, or Mechanical Engineering; the absence of these letters indicates a special student.

Name.	Legal residence.	City address.
Abbe, Edward H., Ed.....	Mass. ..	The Baltimore.
M.D., Long Island College Hospital.		
Acker, Kemp Gerard, Eng.m.....	D. C. ..	913 16th Street.
Adams, B. Bouis, Arch.....	D. C. ..	2910 13th Street.
Adams, Raymond Edmond, Eng.c... Pa. ....	Pa. ....	707 22d Street.
Adams, Vera Elsie, C.C.....	D. C. ..	128 C Street, N. E.
Affleck, Mrs. Philip G., Ed.....	D. C. ..	3440 34th Place, Cleveland Park.
Alden, Anna Grace, C.C.....	D. C. ..	809 L Street.
Alden, Levieta Ruth, C.C.....	D. C. ..	809 L Street.
Allen, Anna, C.C.....	D. C. ..	1419 Q Street.
Alston, Larkin Roy, C.C.....	La. ....	1005 13th Street.



Name.	Legal residence.	City address.
Alvord, Katharine, C.C.....	D. C.	..The Ontario.
Anderson, Henry Melville, C.C.....	D. C.	..3042 R Street.
Arminger, S. Elmer, Arch.....	Md.	..1527 I Street.
Atlee, Anna May, Ed.....	D. C.	..1322 S Street.
Austin, Ella Morgan, C.C.....	D. C.	..425 P Street.
Bache, Louise, C.C.....	D. C.	..1326 R Street.
Baer, David Alphonse, C.C.....	D. C.	..3044 N Street.
Bailey, Helen Carlotta, C.C.....	Mass.	..1903 H Street.
Baker, Effie Kline, C.C.....	D. C.	..1728 Columbia Road.
Baker, Jessie Esther, Ed.....	D. C.	..1764 U Street.
Baker, John Earl, C.C.....	Wis.	..2012 G Street.
Ph.B., 1906, University of Wisconsin.		
Baker, Wallace M., Eng.....	D. C.	..2301 N Street.
Ball, W. C. Cooley, Eng.c.....	Md.	..602 Park Road.
Balloch, Agnes McGrew, C.C.....	D. C.	..1013 15th Street.
Barnes, Julian Francis, Eng.e.....	D. C.	..2433 Wisconsin Avenue.
Bashford, Margaret J., Ed.....	Va.	..Alexandria, Va.
Baston, George Henry, C.C.....	Me.	..918 M Street.
Bauerman, Marian, Ed.....	D. C.	..317 N Street, S. W.
Bayly, Howard Paul, Eng.c.....	D. C.	..1333 11th Street.
Beale, Hilda, C.C.....	D. C.	..1820 Kalorama Road.
Beckwith, Minerva Griswold, C.C....	Mich	..1906 H Street.
Beekly, Albert Leon, C.C.....	Nebr.	..1014 15th Street.
Beers, Anne, Ed.....	D. C.	..117 4th Street, S. E.
Berry, James William, C.C.....	D. C.	..14 3d Street, S. E.
Berry, Louise, Ed.....	Md.	..1919 K Street.
Besselievre, Nellie Ecker, C.C.....	D. C.	..315 E Street, N. E.
Betts, Ada Rebecca, Ed.....	D. C.	..511 B Street, N. E.
Bicknell, Clarence Scott, C.C.....	Ill.	..904 K Street.
Biondi, Harry James, Eng.....	D. C.	..508 7th Street, S. E.
Blackley, R. Bassett, Arch.....	Texas	..1412 Mass. Avenue.
Blasey, Joseph, Arch.....	D. C.	..214 Arthur Place.
Bliss, Henry Harmon, C.C.....	D. C.	..1923 15th Street.
Blount, Walter Eames, C.C.....	D. C.	..3101 R Street.
Boesch, Paul Raymond, Eng.m.....	D. C.	..616 E Street, N. E.
Bolton, Meade, Arch.....	D. C.	..506 Iroquois Apt.
Bond, Lewis Franklin, Eng.c.....	Ill.	..1206 Columbia Road.
Booth, Frank W., C.C.....	Iowa	..1525 35th Street.
Botkin, Alice Sinclair, Ed.....	D. C.	..The Burlington.
Boutell, Hugh Gates, C.C.....	Ill.	..The Highlands.
Bowen, Mortimer, C.C.....	Va.	..1025 22d Street.
Bowen, Seth Thomas, Eng.....	Ohio	..1448 Rhode Island Ave.
Bowker, Charles H., C.C.....	D. C.	..1310 Vermont Avenue.

Name.	Legal residence.	City address.
Brackett, Corinne Elizabeth, C.C.	D. C.	1464 Girard Street.
Braddock, George Harrison, Eng.e.	Md.	The Victoria.
Bradshaw, May Paul, Ed.	D. C.	901 C Street, N. E.
Brakhagen, Minnie Hulda, C.C.	D. C.	905 7th Street.
Brame, Arthur Hervey, Eng.e.	D. C.	1317 10th Street.
Brandt, Milton W., Eng.e.	Ohio	1634 15th Street.
Brashears, Irma, C.C.	D. C.	1230 Euclid Street.
Breen, Mary Cecilia, C.C.	D. C.	1357 U Street.
Bridge, Emily Louise, Ed.	Mass.	Maple Street, Takoma Park, Md.
Briggs, Victoria, Ed.	N. Y.	33 The Brunswick.
Britton, Carrie Evelyn, C.C.	Pa.	311 C Street.
Brock, Ruth Elizabeth, Ed.	D. C.	940 K Street.
Brock, Thomas S., Eng.	D. C.	1430 W Street.
Brodie, Ralph, Arch.	D. C.	609 Florida Ave.
Brooks, Courtland, C.C.	D. C.	1634 15th Street.
Brown, Elizabeth Virginia, Ed.	Mo.	1357 Euclid Street.
Brown, Helen Maria, Ed.	N. Y.	1309 17th Street.
Brown, Mary, Ed.	D. C.	2464 Ontario Road.
Browning, Anna Melrose, C.C.	D. C.	3212 Newark Street, Cleveland Park.
Bruder, William Edward, C.C.	Ohio	2211 I Street.
Buckingham, Nevell, Arch.	D. C.	134 C Street, N. E.
Buckler, Albert, Eng.	Pa.	16 3d Street, S. E.
Bullough, George Van Ness, C.C.	D. C.	122 Tenn. Ave., N. E.
Bundick, Harriet Ellen, Ed.	Va.	716 12th Street.
Burchard, Edwin Day, Eng.e.	D. C.	1113 S Street.
Burden, Katherine, C.C.	D. C.	The Franklin.
Burke, Arthur, Ed.	D. C.	2114 O Street.
Burklin, Robert Reyburn, C.C.	D. C.	1131 Girard Street.
Burnett, Lyle B., C.C.	Mo.	1713 G Street.
Burnett, Roy Edgar, C.C.	D. C.	1307 R Street.
Burrell, William W., Eng.m.	Pa.	2129 Pennsylvania Ave.
Butler, Charles Marshall, C.C.	D. C.	1535 I Street.
Butman, Carl Hawes, Eng.m.	Mass.	1700 15th Street.
Cain, John Rice, C.C.	D. C.	1237 Kenyon Street.
Call, Loren Heinlein, Eng.e.	D. C.	1448 Newton Street.
Calvert, Landon Ralls, Eng.	Va.	1804 G Street.
Cameron, Myrle, C.C.	D. C.	16th and Emerson Sts.
Campbell, Harry Hamilton, Eng.e.	D. C.	1723 G Street.
Campbell, James Lawrence, Jr., Arch.	Va.	1977 Biltmore Street.
Campbell, W. Ray, Arch.	N. J.	1120 13th Street.
Campbell, Worthington Clarke, Eng.e.	Md.	1750 Euclid Street.



Name.	Legal residence.	City address.
Card, George Franklin, Eng.....	Mo. ....	3043 P Street.
Carpenter, Essex Porter, Eng.e.....	D. C. ..	1021 G Street.
Carpenter, Lillian Evans, Ed.....	D. C. ..	205 D Street, N. E.
Carraher, Margaret Mary, Ed.....	D. C. ..	504 6th Street, S. W.
Carraher, Rose Gertrude, Ed.....	D. C. ..	504 6th Street, S. W.
Carty, Roy F., Eng.m.....	D. C. ..	Bureau of Standards.
Cash, Edith Katherine, C.C.....	D. C. ..	126 Tenn. Ave., N. E.
Cash, Lilian Claire, C.C.....	D. C. ..	126 Tenn. Ave., N. E.
Cash, W. Bogart, Arch.....	N. C. ..	2516 17th Street.
Chadwick, George Albert, Eng.....	N. J. ..	623 So. Fairfax Street, Alexandria, Va.
Chambers, Charles Edwin, Eng.c....	N. Y. ..	1360 B Street, S. E.
Charlton, Mrs. Paul, Ed.....	D. C. ..	1712 H Street.
Charlton, Robert, C.C.....	D. C. ..	1712 H Street.
Cheshire, Lilie Alice, C.C.....	D. C. ..	125 11th Street, S. E.
Chubb, Herman Blaney, C.C.....	D. C. ..	The Mendota.
Church, Christine Merrick, C.C.....	D. C. ..	626 N. C. Ave., S. E.
Clagett, Henry Noble, Eng.....	Md. ....	1748 S Street.
Clark, Bennett Champ, C.C.....	Mo. ....	The Toronto.
Clark, Frank R., Eng.....	Utah ..	36, Imperial Apt.
Clark, Henry Culbertson, C.C.....	D. C. ..	Takoma Park, D. C.
Clift, Linda Lee, C.C.....	D. C. ..	163 U Street.
Clyne, J. V., Eng.....	Ill. ....	909 13th Street.
Coburn, Walter DeMeritt, C.C.....	D. C. ..	720 22d Street.
Coburn, William Turley, Eng.....	D. C. ..	2959 Tilden Street.
Cochran, Ruth Gilbert, C.C.....	Colo. ..	1748 Corcoran Street.
Cochrane, John Edw. Walker, Eng.c.D. C.	D. C. ..	1416 K Street.
Cockrell, Henry Ewing, C.C.....	Mo. ....	1518 R Street.
Cockrell, Selwyn Kennedy, C.C.....	D. C. ..	216 11th Street.
Coe, Mayne Reid, C.C.....	N. C. ..	Langdon, D. C.
Coleman, Thomas Carlisle, Eng.....	D. C. ..	The Westover.
Collins, Joseph Francis, Ed.....	D. C. ..	2049 9th Street.
Compton, Edith Lee, Ed.....	D. C. ..	1121 Euclid Street.
Conboye, William T., Eng.c.....	D. C. ..	311 M Street.
Connelly, Mary, Ed.....	D. C. ..	1438 S Street.
Connor, Daniel Allman, Eng.c.....	D. C. ..	130 D Street, S. E.
Connor, Louis George, C.C.....	D. C. ..	626 L Street, N. E.
Conwell, Rollin Nichol, Eng.e.....	Ind. ....	1302 Columbia Road.
Cooke, May Thacher, C.C.....	Colo. ....	1328 12th Street.
Coolidge, Helen Moody, Ed.....	D. C. ..	1419 R Street.
Corson, Edna Lois, C.C.....	D. C. ..	1154 17th Street.
Covell, David Ransom, C.C.....	N. Y. ..	3221 11th Street.
Craig, Harold Kennedy, Eng.c.....	D. C. ..	2206 1st Street.

Name.	Legal residence.	City address.
Craig, Marion Edith, C.C.....	Va. ....	2206 1st Street.
Craighill, Susan Robins, Ed.....	Va. ....	3062 Q Street.
Cranston, Claudia, C.C.....	Texas ..	1467 Irving Street.
Crockett, Joseph A., Eng.m.....	D. C. ..	208 11th Street, N. E.
Croswell, Nannie B., Ed.....	D. C. ..	1327 Mass. Ave., S. E.
Crowe, John Joseph, C.C.....	D. C. ..	Bladensburg Road.
Crown, James Edmond, C.C.....	D. C. ..	221 10th Street, S. E.
Cummins, Albert Forest, C.C.....	Pa. ....	221 11th Street, S. E.
Curl, Joseph Ryland, C.C.....	D. C. ..	2312 I Street.
Curran, William J. F., C.C.....	D. C. ..	305 1st Street, S. E.
Curtis, Myron Seaton, Eng.m.....	Md. ....	Chevy Chase, Md.
Cushing, Harriet Morrill, C.C.....	D. C. ..	1333 N Street.
Dague, Roswell, C.C.....	Wash. ..	930 18th Street.
Dahn, Franz F. W., C.C.....	Minn. ..	1515 O Street.
Daniels, Ara Marcus, Eng.e.....	D. C. ..	The Portner.
Dans, José P., Eng.....	P. I. ....	Coast & Geodetic Survey.
Davidson, William Falconer, Eng.e.....	N. C. ..	1226 Evarts Street, N. E.
Davies, Joseph Alfred, C.C.....	Ind. ....	1528 Rosedale St., N. E.
Davies, Robert Gardner, Eng.m....	D. C. ..	1004 N. C. Ave., S. E.
Davis, Adelaide, Ed.....	Mass. ..	213 C Street, S. E.
Davis, Estelle Hance, Ed.....	Va. ....	403 B Street, N. E.
Davis, Rena Preston, C.C.....	D. C. ..	2212 1st Street.
Deacon, Ralph D., C.C.....	S. D. ..	1719 G Street.
Dean, Mary Owen, Ed.....	D. C. ..	1507 Park Road.
B.A., Woman's College, Baltimore, Md.		
Deland, Eugenie, Ed.....	D. C. ..	507 T Street.
Denham, Ruth Milicent, C.C.....	D. C. ..	Manor House.
Denning, William Ira, C.C.....	Ga. ....	The Loretto.
DeRiemer, Arthur Hyde, Eng.....	Ill. ....	1461 Chapin Street.
Deyo, Clarence Eugene, C.C.....	Conn. ..	Treasury Department.
Dick, George Wesley, Eng.....	D. C. ..	322 8th Street, N. E.
Dilger, Eric, C.C.....	Va. ....	Cor. 26th, D St., and Water St.
Dodge, Edna May, Ed.....	D. C. ..	610 F Street, N. E.
Doing, Jennie E., C.C.....	D. C. ..	1311 K Street.
Dolbey, Frank Crofutt, Eng.....	D. C. ..	740 13th Street, S. E.
Donk, Marion Gilbert, Eng.e.....	Fla. ....	35, The Brunswick.
Donk, Peter, Ed.....	Fla. ....	35, The Brunswick.
Donovan, Frances Helen, C.C.....	D. C. ..	1677 31st Street.
Doran, Helen Fay, C.C.....	D. C. ..	2129 L Street.
Dortch, Mary Harris, C.C.....	Tenn. ..	1510 Park Road.
Dougherty, Howard Francis, Eng.e.....	Md. ....	824 13th Street.
Douglas, Willard Raymond, Eng., ..	D. C. ..	Nat'l Elec. Supply Co.



Name.	Legal residence.	City address.
Duvall, Mary Morsell, Ed.....	D. C.	..1831 M Street.
Doyle, Burton Jarvis, Arch.....	D. C.	..632 C Street, N. E.
Draper, Henry White, Ed.....	D. C.	..1303 Fairmont Street.
LL.B., 1903, LL.M., 1904, National University.		
Dugan, John A., Eng.m.....	D. C.	..3419 Dent Place.
Dugan, Rose Ann, Ed.....	D. C.	..1321 Corcoran Street.
Dulin, Wm. Shelton Gordon, Eng.c..	D. C.	..1420 Pennsylvania Ave.
Dunbar, Ralph McNeal, C.C.....	Md.	....Y. M. C. A.
Dwyer, John Rockford, Eng.c.....	D. C.	..628 F Street, S. W.
Dyson, Arnold Horton, Eng.c.....	R. I.	...3008½ R Street.
Earl, Merritt, C.C.....	Wis.	...Bu. of Indian Affairs.
Earll, Donald Montgomery, C.C....	Md.	....Chevy Chase, Md.
Easterday, George Winship, Eng.e..	D. C.	..1681 31st Street.
Eatherly, Walter Scott, C.C.....	Tenn.	..1002 K Street.
Eaton, Ernest Risley, C.C.....	Australia	Y. M. C. A.
Ebbetts, Warner Addison, Arch.....	Conn.	..811 13th Street.
Ebeling, A. H., Arch.....	N. Y.	..U. S. Naval Med. School Hospital.
Eberly, C. F., C.C.....	Ohio	..1733 19th Street.
Eckstein, Josephine E., C.C.....	D. C.	..3361 18th Street.
Edelen, George S., C.C.....	Md.	....The Coywood.
Edwards, Carleton Ula, Eng.....	Ark.	..1701 Adams Street, N. E.
Eisenberg, Arthur Alexander, C.C..	Russia	..1213 4½ Street, S. W.
Ellis, Harry Van Horn, C.C.....	D. C.	..203 C Street, N. E.
Ellis, Ralph Thomas, C.C.....	Del.	...Y. M. C. A. Bldg.
Elwood, William Adams, Eng.c.....	D. C.	..635 F Street, N. E.
Emerich, Irma, Ed.....	D. C.	..1847 Calvert Street.
Engel, Morris Edward, Eng.m.....	Pa.	....1016 S. C. Ave., S. E.
England, Howard H., C.C.....	D. C.	..5702 Brightwood Ave.
Engle, Claude Hanke, Ed.....	D. C.	..603 Mass. Ave., N. E.
English, Annie, C.C.....	D. C.	..1215 N Street.
Estler, Harry Smith, Eng.m.....	Va.	....1245 31st Street.
Estey, Kate M., Ed.....	D. C.	..2504 Cliffbourne Pl.
Ettenger, Anne Lee, C.C.....	Ind.	..1507 Lamont Street.
Everett, Frank Orear, C.C.....	Mo.	....916 14th Street.
Fant, Jessie DuBois, Ed.....	Idaho	..115 12th Street, S. E.
Farnham, Arthur Blanchard, Eng.c..	D. C.	..1733 R Street.
Farrington, Charlotte R., C.C.....	Minn.	..3014 Dent Place.
Farwell, Clarence Gilbert, C.C.....	Mass.	..2217 Pennsylvania Ave.
Fehr, J. Ralph, Eng.e.....	Ill.	....Patent Office.
Fendley, Joseph Martin, C.C.....	Ga.	....2218 Pennsylvania Ave.
Finch, Elmer Harrison, Eng.c.....	Mich.	..1211 Q Street.
Finckel, William Henry, Jr., Eng.m.	D. C.	..1625 S Street.

Name.	Legal residence.	City address.
Firmin, John Clingan, Arch.....	D. C. ..1438	Harvard Street.
Fisher, Dwight Wilton, C.C.....	D. C. ..1921	G Street.
Fitch, Theodore Allen, C.C.....	D. C. ..3126	16th Street.
Fitch, William Reed, C.C.....	N. D. ..2003	G Street.
Fitzsimons, Ellen White, C.C.....	Ala. ....1412	Massachusetts Ave.
Fleming, John Paton, C.C.....	D. C. ..1847	Wyoming Ave.
Fleming, W. H. Irwin, Arch.....	Va. ....1847	Wyoming Ave.
B.S. in Arch., 1906, The George Washington University.		
Forbes, Annie Lewis, Ed.....	Ky. ....1538	I Street.
Ford, Helen, Ed.....	D. C. ..The	Mendota.
Forfar, Adelina Wright, Ed.....	Wis. ....1326	Euclid Street.
Foster, Carrington, Arch.....	Va. ....1323	Q Street.
Foster, Ethel E., Ed.....	D. C. ..19	Iowa Circle.
Foster, Esther, C.C.....	D. C. ..119	W Street.
Foster, Ruth, C.C.....	D. C. ..119	W Street.
Fowler, Ruth, Ed.....	Ind. ....1834	Euclid Street.
Frank, Mary Woods, C.C.....	D. C. ..1003	Otis Place.
Freeman, Alice L., Ed.....	S. C. ..1831	V Street, S. E.
Freeman, Leroy A., Eng.....	D. C. ..46	V Street.
Freeman, Louis George, Eng.e.....	D. C. ..1700	Columbia Road.
Frey, Ralph Wylie, C.C.....	D. C. ..1343	Q Street.
Frick, George Frederick, Eng.....	Pa. ....1838	4th Street.
Fuerst, George M., Arch.....	Wis. ....1827	H Street.
Fuchs, Henry, Eng.e.....	Mo. ....11½	Grant Place.
Fuller, Aubrey Vail, C.C.....	D. C. ..2318	1st Street.
Fulmer, Howard D., Arch.....	Pa. ....1813	16th Street.
Galiher, Blanche Pauline, Ed.....	Ill. ....436	6th Street, N. E.
Gannett, Eleanor, C.C.....	D. C. ..2556	University Place.
Gardner, Helen B., Ed.....	D. C. ..623	East Capitol Street.
Garnett, Henry Wise, C.C.....	D. C. ..1409	Hopkins Place.
Garland, Alexander, Jr., Arch.....	Peru ...334	Indiana Ave.
Gary, Howland R., Eng.m.....	Va. ....R. F. D. No. 2,	Alexandria, Va.
Geare, Reginald W., Arch.....	D. C. ..10th and	Otis Streets.
Geschickter, Jeanette, C.C.....	D. C. ..1239	12th Street.
Gibbons, Jessie Ercell, C.C.....	D. C. ..1314	N. C. Ave., N. E.
Gill, Wilbur D., Eng.e.....	D. C. ..1925	Calvert Street.
Gilliss, Helen, Ed.....	Va. ....1307	Kenyon Street.
Given, Mary Ella, Ed.....	D. C. ..The	Olympia.
Glass, Edward L. N., C.C.....	N. J. ..1733	P Street.
Goding, Anne M., Ed.....	D. C. ..1419	Rhode Island Ave.
Godoy, George, Arch.....	Calif. ..1006	16th Street.



Name.	Legal residence.	City address.
Goicouria, Pedro P., C.C.....	P. R. ..	Cor. 25th and E Streets.
Goodrich, Queenie Anna, C.C.....	Ill. ....	1538 I Street.
Gover, William Thornton, Ed.....	Va. ....	Manassas, Va.
Grady, Ryan Armistead, C.C.....	D. C. ..	1521 29th Street.
Graff, Leva Burton, C.C.....	Ill. ....	Dewey Hotel.
Graham, Claudia VanNette, Ed.....	D. C. ..	1125 6th Street.
Graham, George Vernon, C.C.....	D. C. ..	3552 10th Street.
Graham, Jerome Montrose, Arch....	D. C. ..	1407 16th Street.
Graham, Jeannie True, Ed.....	Ky. ....	1538 I Street.
Green, Elsie Eugenia, C.C.....	D. C. ..	600 23d Street.
Greenburg, Louis, Arch.....	D. C. ..	612 N Street.
Greenwood, Mary Maud, Ed.....	D. C. ..	1360 Columbia Road.
Griffin, Harry Kemp, C.C.....	Ill. ....	Bureau of Standards.
Gudmunsen, Isaac Ray, C.C.....	Idaho ..	520 F Street, N. E.
Gwinn, Thomas Ross, Eng.e.....	Md. ....	1645 K Street.
Hackett, William T., Eng.e.....	D. C. ..	1129 Fairmont Street.
Haddaway, S. K., Eng.....	Pa. ....	715 A Street, S. E.
Haller, Thomas Edward, Arch.....	D. C. ..	447 Lamont Street.
Halsey, Arthur Sherman, Eng.....	Pa. ....	207 East Capitol Street.
Hamilton, Charles Burwell, Eng.m..	D. C. ..	1032 Lamont Street.
Hamilton, Walter Clarence, Eng....	D. C. ..	406 6th Street, S. E.
Hansen, Otto W., Eng.e.....	Ill. ....	1808 H Street.
Hardester, John S., Eng.....	D. C. ..	Congress Heights, D. C.
Hardy, Margaret Bourde, Ed.....	Va. ....	638 E. Capitol Street.
Harrison, Hattie, C.C.....	Va. ....	3100 R Street.
Harrison, Robert Horace, Eng.e....	D. C. ..	2208 1st Street.
Hart, Charles, Ed.....	D. C. ..	515 B Street, N. E.
Hart, Raymond Sager, Arch.....	D. C. ..	1536 6th Street.
Hart, William Lee, C.C.....	S. C. ...	Washington Barracks.
M.D., 1906, University of Maryland.		
Hartman, Joseph Vance, C.C.....	Ind. ....	226 11th Street.
Hartmann, Wilhelmine Cornelia, C.C.D. C. ..		The Berkshire.
Haslup, Alice Elma, Ed.....	D. C. ..	2114 18th Street.
Hatch, Jeanne M., Ed.....	N. J. ..	The Mendota.
Hathaway, Lillie Theresa, C.C.....	Ohio ...	Treasury Department.
Hauser, Edna Emma, C.C.....	D. C. ..	1729 1st Street.
Hawkins, Margaret, Ed.....	Md. ....	2313 Washington Circle.
Haycock, Robert Lee, Ed.....	D. C. ..	Industrial Home School.
Hayden, Elizabeth Anne, Ed.....	N. Y. ..	1408 Belmont Street.
Hayton, Charles Henry, C.C.....	So. Afr.	Takoma Park, D. C.
Hazard, Samuel Tilden, Eng.e.....	D. C. ..	1004 B Street, S. E.
Heald, Lenore, C.C.....	D. C. ..	Takoma Park, D. C.
Heilprin, Marion, C.C.....	D. C. ..	2620 University Place.

Name.	Legal residence.	City address.
Heitmuller, George Roeder, C.C....	D. C.	..1307 14th Street.
Henderson, John Wagner, C.C.....	Md.	..1819 Kalorama Road.
Hendley, Flora L., Ed.....	D. C.	..1216 L Street.
Hendry, M. Leland, C.C.....	Md.	..Bethesda, Md.
Herndon, John Goodwin, Jr., C.C...	Ala.	..1305 P Street.
Herndon, Neal N., Eng.....	Ala.	..1515 Vermont Ave.
Hess, Eva, C.C.....	D. C.	..1221 Newton St., N. E., Brookland, D. C.
Hession, John H., Eng.e.....	Mass.	..1419 W Street.
Hiatt, Mabel Brown, C.C.....	Iowa	..1414 Hopkins Street.
Higginbotham, Richard Frank, C.C.	Ind.	..House of Rep.
Hill, Elsie Mary, C.C.....	Conn.	..The Burlington.
A.B., 1906, Vassar College.		
Hill, Florence A., C.C.....	D. C.	..933 Westminster Street.
Hill, Walter Ormsby, C.C.....	Mo.	..1006 B Street, S. W.
Hilleary, Mary Beatrice, Ed.....	D. C.	..3314 P Street.
Hobson, Frank Millard, Eng.e.....	Va.	..2013 G Street.
Hoffman, Edwin S., Eng.e.....	Pa.	..523 B Street, N. E.
Holcombe, William Henry, Eng.c...	Ind.	..1829 Corcoran Street.
Holden, John Greene, Eng.c.....	Md.	..Amer. Sec. & Trust Co.
Holland, Adrian C., Eng.e.....	Texas	..1528 1st Street.
Holmes, Mrs. Kate Osgood, Ed.....	D. C.	..1444 Belmont Street.
Holmes, Osgood, Arch.....	D. C.	..1444 Belmont Street.
Holmes, Phoebe, Ed.....	D. C.	..2307 18th Street.
Holmes, Rexford Louie, C.C.....	Ill.	..1114 D Street, N. E.
LL.B., 1908, The George Washington University.		
Holmes, Ronald M., C.C.....	D. C.	..726 3d Street, N. E.
Honn, Harlan Verne, Eng.e.....	D. C.	..400 8th Street, N. E.
Honsberg, Emil Ernest, Eng.....	Ohio	..1103 17th Street.
Hooton, Philip Rogers, Arch.....	D. C.	..1005 Mass. Ave., N. E.
Hoover, Joseph Raymond, C.C.....	D. C.	..1118 9th Street.
Hopkins, Edwin B., C.C.....	D. C.	..The Rockingham.
Horgan, Francis Vincent, Eng.c....	D. C.	..733 13th Street.
Hornung, Elmer Engelken, Arch....	Iowa	..1313 K Street.
Horstman, William Henry, Arch....	Mo.	..418 6th Street.
Hough, Edgar Joseph, Eng.m.....	D. C.	..1515 O Street.
Hough, Roland P., Eng.c.....	Va.	..Ballston, Va.
Howard, Frank A., Eng.m.....	D. C.	..1800 S Street.
Howard, Mary, C.C.....	Neb.	..16 R. I. Ave., N. E.
Howell, Ralph William, C.C.....	D. C.	..612 17th Street.
Hoyme, G. L., Arch.....	Va.	..53 U Street.
Hronik, Joseph, C.C.....	Iowa	..823 21st Street.
Huff, Carrie, C.C.....	Miss.	..1702 F Street.



Name.	Legal residence.	City address.
Hughes, William G., Eng.m.....	D. C.	..The Eutaw Apt.
Hummer, Elizabeth Alice, C.C.....	D. C.	..638 East Capitol Street.
Hunter, Annie Rachel, C.C.....	D. C.	..1211 34th Street.
Hunter, Gertrude, Ed.....	D. C.	..1445 Massachusetts Ave.
Hunting, Horace Parsons, Eng.m..	N. Y.	..The Alabama, Apt. 207.
Hurley, John J., Jr., Eng.c.....	D. C.	..60 K Street.
Ingersoll, Edwin Henry, C.C.....	D. C.	..Bu. Animal Industry.
Irby, Robert Garland, C.C.....	D. C.	..1348 Euclid Street.
Jackson, Maude L., C.C.....	D. C.	..3630 13th Street.
Jacobs, Benjamin Richard, C.C.....	Calif.	..Bureau of Chemistry.
Jeffrey, Frank Rumer, C.C.....	Wash.	..823 21st Street.
Jenkins, Oliver Lloyd, Eng.m.....	Ind.	..718 N. C. Ave., S. E.
Johnson, Charles Albert, Ed.....	D. C.	..2011 S Street.
Johnson, Ross Holbrook, C.C.....	D. C.	..1804 Belmont Road.
Johnson, Mrs. Sara Pierson, Ed....	Va.	..4107 Connecticut Ave.
Johnston, Mildred Floyd, Ed.....	D. C.	..1762 N Street.
Jones, Cyrus Alexander, C.C.....	Ill.	....Chevy Chase, Md.
Jones, Eleanor Isabelle, C.C.....	Ohio	..426 Luray Place.
Jones, Mary Glenn, Arch.....	Va.	....1527 I Street.
Jones, Robert Pepin, C.C.....	Mass.	..301 Md. Ave., N. E.
Justement, Louis Henri E., Arch....	N. Y.	..914 L Street.
Kalb, Dorothy Buhrman, Ed.....	D. C.	..1535 T Street.
Keathley, Lillie V., C.C.....	N. C.	..The Concord.
Keats, Harold, C.C.....	D. C.	..1806 S Street.
Keeton, Daniel M., C.C.....	Texas	..2437 N Street.
Kelley, Mark M., C.C.....	Calif.	..1110 L Street.
Kengla, Herbert Lorenza, Eng.c....	D. C.	..2924 Wisconsin Ave.
Kennedy, Charles Bayard, Eng.e....	D. C.	..1304 13th Street.
Kennedy, John Thomas, C.C.....	Pa.	....Y. M. C. A. Bldg.
Kerlin, John G., C.C.....	N. J.	..933 H Street.
King, Winifred Mary, C.C.....	D. C.	..1803 14th Street.
Kinsell, Rex Emir, C.C.....	Iowa	..1335 Mass. Ave., S. E.
Klee, Charles Raymond, Arch.....	N. Y.	..3224 R Street.
Knowles, William Alexander, Arch..	D. C.	..U. S. Nat'l Museum.
Kramer, Frank Henry, Eng.....	D. C.	..506 3d Street, S. E.
Kuan, Ching-lin, C.C.....	China	..2001 19th Street.
Lamb, James Ewing, Ed.....	Md.	....1322 I Street.
Lane, Marian Ursula, Ed.....	Eng.	..1126 Connecticut Ave.
Lasley, Dana McGuffey, Eng.m.....	D. C.	..The Albemarle.
Latimer, Philip Averitt, Eng.c.....	D. C.	..226 12th Street, S. E.
Lattleslund, Hilda M., Ed.....	N. D.	..1223 Vermont Ave.
Lawrence, Glenn Rupert, Eng.c.....	D. C.	..3425 14th Street, Brookland, D. C.

Name.	Legal residence.	City address.
Lawson, Margaret Lucile, Ed. ....	N. C. ..	815 C Street, N. E.
Lazard, Henry, Ed. ....	France ..	1341 L Street.
Leaman, Melvin G., C.C. ....	Md. ....	Chevy Chase, Md.
Lee, Ralph Everett, C.C. ....	Mass. ..	320 6th Street, N. E.
Leonard, William Michael, Eng. ....	D. C. ..	520 G Street, N. E.
Lepper, Henry Albert, C.C. ....	D. C. ..	1620 6th Street.
Liebschutz, Eugenie, Ed. ....	France ..	1527 Newton Street.
Lind, John Edward, C.C. ....	Iowa ..	506 A Street, N. E.
Lindsay, Alfred Briscoe, C.C. ....	D. C. ..	1809 18th Street.
Litchfield, Henry Edward, Eng. ....	D. C. ..	1240 Half Street, S. E.
Little, Agnes Inch, Ed. ....	D. C. ..	332 Md. Ave., N. E.
Little, May K., C.C. ....	Ga. ....	131 A Street, N. E.
Littlejohn, Howard Irwin, C.C. ....	Nebr. ..	607 4th Street.
Littell, Mabel Shaw, C.C. ....	D. C. ..	The Baltimore.
Longley, Clifford B., C.C. ....	Ill. ....	The Sterling.
Lord, Kenneth Prince, C.C. ....	D. C. ..	The Concord.
Lovering, George Varnum, C.C. ....	Mass. ..	Interstate Commerce Commission.
Lowe, Edith, C.C. ....	D. C. ..	2622 Woodley Place.
Lower, John Haworth, Eng. ....	N. Y. ..	The Marlborough.
Lucas, Anthony Fitzgerald, Jr., Eng. ....	D. C. ..	1406 16th Street.
Lucas, Leah Roberta, C.C. ....	D. C. ..	1612 1st Street.
Luers, George Arthur, Eng. ....	Md. ....	The Cumberland.
Lusby, Charles Edward, C.C. ....	D. C. ..	2909 O Street.
Lynch, Laura Virginia, C.C. ....	D. C. ..	128 East Capitol Street.
McAuley, Hugh Nesbit, Arch. ....	D. C. ..	530 21st Street.
McCalip, Curtis Edgar, Eng.m. ....	Ind. ....	The Lincoln, Apt. 17.
McCarthy, Charles Henry, C.C. ....	D. C. ..	702 19th Street.
McCarthy, Joseph Henry, Eng. ....	D. C. ..	609 2d Street.
McColm, Anna May, Ed. ....	Iowa ..	The Olympia.
McConnell, Harry Raymond, Eng.m. ....	Va. ....	601 N. C. Ave., S. E.
McDermott, Frank Alexander, C.C. ....	D. C. ..	25th and E Streets.
McGovern, Francis J., C.C. ....	R. I. ..	702 19th Street.
McGraw, Fred M., C.C. ....	N. Y. ..	Takoma Park, Md.
McGuffey, Margaret Drake, Ed. ....	D. C. ..	926 17th Street.
McKee, Mabel Park, Ed. ....	D. C. ..	615 Md. Ave., N. E.
McKnight, Nannie J., Ed. ....	Ohio ..	3037 Dumbarton Ave.
McLean, Harry Clay, Jr., C.C. ....	D. C. ..	1373 Irving Street.
McLear, Alice Bush, Ed. ....	Del. ....	1307 W. 13th Street, Wilmington, Del.
McPike, Martin John, Eng.c. ....	Pa. ....	812 1st Street.
Malnati, Antoinette, Ed. ....	D. C. ..	712 East Capitol Street.
Manning, Thomas R., Eng.c. ....	Pa. ....	26 2d Street, N. E.



Name.	Legal residence.	City address.
Manville, Loren Robert, Eng.c.....	S. D. ....	1515 O Street.
Marcus, Mandel, C.C.....	Ill. ....	224 Indiana Ave.
Maret, Jeanne, Ed.....	Switzerland.	1719 13th Street.
Marr, Anna, C.C.....	D. C. ....	1818 S Street.
Marsh, Allen Johnson, C.C.....	D. C. ....	McKinley Manual Training School.
Marsh, Mrs. Charlotte Evans, Ed....	Md. ....	324 Indiana Ave.
Marsh, Charles Wilder, C.C.....	D. C. ....	3430 Brown Street.
Martin, James Luther, C.C.....	Md. ....	Baltimore, Md.
Marvin, Francis Edwin, Eng.e.....	D. C. ....	606 F Street, N. E.
Maryan, William Sturdivant, C.C....	Va. ....	1135 12th Street.
Marye, Tench Tilghman, C.C.....	D. C. ....	1526 20th Street.
Mason, Josephine Dwight, Ed.....	Mass. ....	132 A Street, N. E.
Masters, Lilla V., Ed.....	D. C. ....	2055 Wisconsin Ave. A.B., Wellesley College.
Mattingly, Gentry Heard, Eng.e....	D. C. ....	475 F Street, S. W.
Maurer, Ruth Walden, Ed.....	Ohio ...	The Nelson.
Mayne, John Clarke, C.C.....	D. C. ....	4201 Brightwood Ave.
Maxcy, Kenneth Fuller, C.C.....	D. C. ....	1118 Rhode Island Ave.
Megee, Mary Lena, Ed.....	Texas ...	Grant Road.
Meyer, Will Beck, C.C.....	D. C. ....	609 P Street.
Middleton, Arthur Pierce, C.C.....	D. C. ....	1228 Fairmont Street.
Miller, Clarence William, Eng.e....	Ind. ....	821 11th Street.
Miller, Dayton Baird, C.C.....	D. C. ....	15 Quincy Place.
Millington, Yale O., C.C.....	D. C. ....	1009 Newton St., N. E.
Moneyway, James Lewis, C.C.....	Ala. ....	1454 Fairmont Street.
Monk, Ella May, Ed.....	N. Y. ....	1812 G Street.
Monroe, Edgar Hewitson, Eng.....	D. C. ....	901 Virginia Ave., S. W.
Moody, Theodore Lyman, Eng.c....	Md. ....	1512 P Street.
Moore, Frances DuBois, Arch.....	N. Y. ....	Public Library.
Moore, Kate Carroll, Ed.....	D. C. ....	224 15th Street.
Moore, Lee Varick, C.C.....	N. C. ....	1219 Q Street.
Moore, Susanne A., Ed.....	D. C. ....	1308 Girard Street.
Morgan, M. Ella, Ed.....	D. C. ....	2750 14th Street.
Morton, Carrie L., C.C.....	D. C. ....	200 A Street, S. E.
Muncey, Eliot May, C.C.....	D. C. ....	1337 R Street.
Munroe, Dorothy Barker, Ed.....	R. I. ....	2115 S Street.
Myers, Charles Claude, C.C.....	D. C. ....	1804 14th Street.
Myers, Henry Bernard, Eng.c.....	Md. ....	1412 Columbia Street.
Myers, John D., C.C.....	D. C. ....	The Vermont.
Newbold, Katharine Mitchell, C.C..	D. C. ....	1362 Kenyon Street.
Newhouser, Roy Lyman J., C.C....	Pa. ....	217 East Capitol Street.
Newton, Grace Gadsdon, Ed.....	D. C. ....	1452 Fairmont Street.

Name.	Legal residence.	City address.
Newton, Margaret, Ed.....	D. C. ..	1625 R Street.
Nicholson, Helen Sellman, C.C.....	D. C. ..	2821 Q Street.
Nicholson, Percival H., Eng.....	Md. ....	Bureau of Education.
Nickerson, Chester Arthur, C.C....	Wis. ....	1739 F Street.
Nickel, William Frederick, Eng.e....	Md. ....	1333 12th Street.
Nicolson, Geo. Dudley Gordon, Eng.	Va. ....	Navy Dept., Bu. Con. & Rep.
Nielsen, Joseph Nicolay, Arch.....	Minn. ..	1615 Florida Ave.
Nin-Frias, Helena, C.C.....	Uruguay.	1410 21st Street.
Nutt, George Sinclair, C.C.....	Ill. ....	617 C Street, N. E.
Oehmann, John William, Eng.....	D. C. ..	507 Stanton Place, N. E.
Olesen, Walter Alexis, Eng.e.....	Minn. ..	644 E Street, N. E.
Olmstead, Mary Pauline, C.C.....	Minn. ..	130 East Capitol Street.
Ord, Gladys Anne, C.C.....	Md. ....	Chevy Chase, Md.
O'Rourke, John, Arch.....	D. C. ..	Station A, 2472.
Ortiz, Miguel, Eng.e.....	Mexico ..	1002 M Street.
Osgood, Rose Cornelia, C.C.....	N. Y. ..	The Victoria.
Osterhout, Karl Jackson, C.C.....	Pa. ....	613 C Street, S. E.
Outwater, Mrs. Kate Sorrell, Ed....	Va. ....	620 F Street, S. W.
Owens, Norris Wilbur, Ed.....	Md. ....	315 R Street.
Palmer, Elizabeth D., Ed.....	Conn. ..	1331 Fairmont Street.
Padgett, Harold Dement, Eng.c....	Md. ....	816 18th Street.
Panopio, Eliseo M., Eng.....	P. I. ....	Coast & Geod. Survey.
Pardee, Elmer Witmer, Eng.e.....	N. Y. ..	916 19th Street.
Parkhurst, Benjamin, C.C.....	D. C. ..	1135 12th Street.
Parry, William, Eng.e.....	Pa. ....	1328 New York Ave.
Parsons, Beulah Elizabeth, Ed.....	D. C. ..	1229 15th Street.
Patchell, Fred James, C.C.....	D. C. ..	357 N Street, S. W.
Patterson, Ruth Capelle, Ed.....	D. C. ..	2016 15th Street.
Patterson, Russell Brown, Eng.c....	D. C. ..	2016 15th Street.
Peck, Caro B., Eng.....	D. C. ..	603 Howard Place.
Perry, Mabel, Ed.....	Conn. ..	1758 Q Street.
Pellett, Mirl Edison, C.C.....	D. C. ..	2120 H Street.
Pepper, Nora Rose, C.C.....	D. C. ..	1743 U Street.
Phillips, Marguerite, Ed.....	D. C. ..	1705 21st Street.
Pierce, James Francis, Eng.e.....	Mich. ..	1243 5th Street.
Pierce, Ulysses G. B., C.C.....	D. C. ..	1616 Riggs Place.
B.D., 1890, Hillsdale College.		
Pimper, Cora H., Ed.....	D. C. ..	1302 30th Street.
Pipes, Walter Logan, Eng.m.....	D. C. ..	916 F Street.
Plass, Joseph, C.C.....	Germany.	223 H Street.
Pole, Samuel B., C.C.....	D. C. ..	216 8th Street, N. E.
Poole, George, Eng.m.....	D. C. ..	903 E Street, S. E.



Name.	Legal residence.	City address.
Porter, Irwin, Arch.....	D. C.	..3225 11th Street.
Potbury, Robert John, Eng.c.....	D. C.	..1131 Euclid Street.
Potter, Charles Hollister, C.C.....	N. C.	..316 East Capitol Street.
Powers, Edgar Cordell, C.C.....	D. C.	..1327 Newton St., N. E.
Pratt, Mary B., Ed.....	Mass.	..821 16th Street.
Prentiss, Augustin Michael, Eng.c..	S. C.	..1402 L Street.
Prescott, Edward Chepmell, Eng....	D. C.	..336 Md. Ave., N. E.
Prince, Ethel Thomas, Ed.....	D. C.	..The Portner.
Purcell, Julia, Ed.....	N. Y.	..1536 I Street.
Purcell, Tobias Edwin, Arch.....	N. Y.	..Y. M. C. A.
Pyles, Hester Ellen, C.C.....	D. C.	..13th & W Streets, S. E.
Ramsey, Harold Edwin, Eng.e.....	D. C.	..813 Mass. Ave., N. E.
Rawlings, Julia May, Ed.....	D. C.	..131 A Street, N. E.
Raymond, Maybelle, Ed.....	Pa.	..1810 N Street.
Reamey, Brewster, C.C.....	D. C.	..1746 N Street.
Reges, Maximilian F., Eng.c.....	Pa.	..1113 5th Street.
Regester, Alberta Brown, C.C.....	Va.	..Alexandria, Va.
Rhodes, Ada, C.C.....	Va.	..Falls Church, Va.
Richard, Vernon Irving, C.C.....	D. C.	..309 B Street, N. E.
Richards, Alice Mary, Ed.....	Eng.	..1114 25th Street.
Richards, Chester Raymond, C.C....	Kans.	..The Sherman.
Richards, Ruth B., Ed.....	D. C.	..101 Massachusetts Ave.
Riley, Albert Austin, Eng.c.....	Ohio	..2616 Connecticut Ave.
Rives, John Joseph, Ed.....	N. C.	..316 9th Street, N. E.
Roberts, Norman, C.C.....	D. C.	..707 22d Street.
M.D., 1897, University of Pennsylvania.		
Robinson, Rebecca Selina, Ed.....	Canada	..The Arlington.
Rodgers, Frank Beverly, Eng.e.....	D. C.	..De Soto Apt. House.
Rogers, Frank Beecher, Eng.c.....	N. Y.	..1342 Girard Street.
Rogers, Orville S., Arch.....	Ill.	..1430 W Street.
Rose, Anna Lorette, C.C.....	D. C.	..1725 Euclid Street.
Ross, Lily Aurelia, Ed.....	Ark.	..1452 Belmont Street.
Rouzer, Horace Dodge, Eng.c.....	Md.	..2517 14th Street.
Rowlett, Allen H., Arch.....	Va.	..1530 9th Street.
Russell, Lewis H., Arch.....	N. Y.	..3538 Warder Street.
Ryan, William David, Jr., C.C.....	Ill.	..909 13th Street.
Safford, Howard Palmer, Eng.e....	D. C.	..2445 Brightwood Ave.
Sammons, Margaret R., Ed.....	N. Y.	..1604 K Street.
Sanders, Elsie, Ed.....	Germany.	..1360 Kenyon Street.
Sargent, Rufus Harvey, C.C.....	D. C.	..Geological Survey.
Satterlund, Hilda M., Ed.....	N. D.	..1223 Vermont Ave.
Saum, Irving Randolph, Eng.c.....	D. C.	..1308 Girard Street.
Saunders, Clara Rossman, Ed.....	Ohio	..The Brunswick.

Name.	Legal residence.	City address.
Schaub, Gustav Adolphus, C.C.....	Texas ..	1419 Chapin Street.
Schatz, Elmer, C.C.....	D. C. ..	423 Massachusetts Ave.
Schladt, George J., Eng.e.....	D. C. ..	820 B Street, N. E.
Schmitt, Hugo Rudolf, Eng.e.....	D. C. ..	211 Florida Ave.
Schmitt, Waldo Lasalle, C.C.....	D. C. ..	211 Florida Ave.
Schnabel, Fred., Eng.....	Ill. ....	1521 I Street.
Schreiber, Ernst Otto, Jr., C.C.....	D. C. ..	642 E Street, N. E.
Schultz, Dorothy F. N., C.C.....	D. C. ..	The Plaza.
Scott, Jos. Addison Preston, Eng.c..	D. C. ..	504 8th Street, N. E.
Scott, Oliver Hazard Perry, Eng.e..	S. C. ..	3207 11th Street.
Sebree, Jessie Lydia, C.C.....	D. C. ..	Ammendale, Md.
Seltzer, Naomi Ruth, C.C.....	D. C. ..	941 Westminster Street.
Shackelford, Laura, C.C.....	D. C. ..	924 Md. Ave., N. E.
Shanks, Samuel Lee, Arch.....	D. C. ..	1422 35th Street.
Shannon, Lucile A., C.C.....	Nebr. ..	2215 14th Street.
Sherwood, Sidney Forsythe, C.C....	Va. ....	1515 O Street.
Shinnick, Harry Allison, C.C.....	D. C. ..	70 T Street.
Shipman, Mary P., Ed.....	D. C. ..	3064 Q Street.
Shoemaker, Maynard Parker, Eng..	Md. ....	1638 New Jersey Ave.
Shrader, James Houston, C.C.....	D. C. ..	804 9th Street.
Shuman, Mrs. Mary Barber, Ed.....	N. J. ..	1311 M Street.
Shuman, Royal Lewis, C.C.....	Pa. ....	1311 M Street.
Simpson, Gustavus Sailer, Eng.c....	D. C. ..	1477 Columbia Road.
Simpson, Walter Scott, Eng.c.....	D. C. ..	508 10th Street, S. E.
Singleton, Ina Duvall, C.C.....	D. C. ..	2020 H Street.
Sipe, Susan Bender, C.C.....	D. C. ..	The Ontario.
Sisco, Henry Nathaniel, C.C.,.....	D. C. ..	1344 Vermont Ave.
Skidmore, Elnathan J., C.C.....	Mich. ..	1514 K Street.
Skinner, Hosea Edwin, C.C.....	Ill. ....	1433 L Street.
B.S., 1904, Valparaiso College.		
Sloane, C. E., Eng.....	D. C. ..	1521 10th Street.
Small, Madison Ruff, Ed.....	D. C. ..	1466 Harvard Street.
Smallwood, Dorothy Archibald, C.C.	D. C. ..	2107 S Street.
Smith, Chester Harvey, Eng.e.....	D. C. ..	327 2d Street, N. E.
Smith, Delos Hamilton, Arch.....	Ariz. ..	1905 F Street.
B.S. in Arch., 1906, The George Washington University.		
Smith, Everard Hall, Eng.c.....	D. C. ..	637 Mass. Ave., N. E.
Smith, Emma Miriam, Ed.....	Md. ....	800 E Street, N. E.
Smith, Ethel Marion, C.C.....	Ill. ....	1833 V Street.
Smith, Frank Newman, C.C.....	D. C. ..	The Ontario.
Smith, Harry Locke, Eng.c.....	N. H. ..	313 S Street, N. E.
Smith, Hoxsie Yost, Eng.e.....	D. C. ..	1619 17th Street.



Name.	Legal residence.	City address.
Smith, Mary Louise, C.C.....	D. C. ..	The Madrid.
Smith, Janie Alice, C.C.....	D. C. ..	.637 Mass. Ave., N. E.
Snelling, Henry Hornor, Eng.m....	Va. ....	.3522 10th Street.
Spalthoff, Wm. Dornedden, Eng.e....	N. Y. ..	.1916 H Street.
Springer, Jessie F., C.C.....	Ind. ....	The Dewey Hotel.
Stabler, Harold Brooke, Eng.e.....	Md. ....	.1214 I Street.
Stafford, Charles F., Eng.m.....	N. Y. ..	.1515 O Street.
Starr, Relda A., C.C.....	N. Y. ..	.1111 4th Street, S. E.
Staulil, Edgar J., Eng.c.....	N. D. ..	.1010 N Street.
Stearns, Orlo Foster, C.C.....	Mass. ..	.1115 K Street.
Steever, Laura Winfield, C.C.....	D. C. ..	Forest Service.
Stewart, Barton Shriver, Arch.....	D. C. ..	Y. M. C. A.
Stewart, Donald Holt, Eng.....	Md. ....	R. F. D. No. 3, Silver Springs, Md.
Stewart, Elmer, C.C.....	D. C. ..	.1644 Newton Street.
Stinemetz, Morgan, Ed.....	D. C. ..	.1446 Irving Street.
Stout, Joseph Duerson, C.C.....	D. C. ..	.1529 8th Street.
Streamer, Louis Milton, Eng.....	D. C. ..	.746 12th Street, S. E.
Stromberger, Alice P., Ed.....	D. C. ..	.1325 Mass. Ave., S. E.
Stutler, Ward, Arch.....	W. Va. ..	.1736 G Street.
Stuwe, John Daniel, Eng.c.....	Minn. ..	.1017 P Street.
Sullivan, Anna Ermingarde, Ed.....	Iowa ...	.448 P Street.
Summy, Helen, C.C.....	D. C. ..	.920 19th Street.
Summy, Katherine Strong, C.C.....	D. C. ..	.920 19th Street.
Taylor, Irving Paul, C.C.....	D. C. ..	.1433 Belmont Street.
Taylor, James Norman, C.C.....	Del. ....	.1400 L Street.
Taylor, Margaret Randolph, C.C....	D. C. ..	.1330 U Street.
Taylor, Page, Ed.....	D. C. ..	The Exeter.
Thatcher, Arthur S., C.C.....	Pa. ....	Bureau of Chemistry.
Thomas, William J. Denziloe, C.C....	D. C. ..	.1530 29th Street.
Thompson, Frank Meredith, C.C....	D. C. ..	Langdon, D. C.
Thompson, Herbert H., Eng.m.....	Ohio ...	.904 Mass. Ave., N. E.
Thompson, Walter H., Eng.e.....	Pa. ....	.1444 Rhode Island Ave.
Thomson, Anna Speck, C.C.....	Ky. ....	.2701 14th Street.
Thomson, Harriet Huntington, C.C....	Md. ....	Silver Spring, Md.
Thorne, Harold Carrier, Eng.e.....	Minn. ..	The Victoria, Apt. 2.
Thrall, Walter H., Eng.....	Vt. ....	.1910 15th Street.
Thrall, William Gove, Eng.c.....	Vt. ....	.1910 15th Street.
Todd, Cecilia, Ed.....	D. C. ..	.1243 Irving Street.
Tolson, Lillian Irene, Ed.....	Md. ....	.125 12th Street, N. E.
Tong, William Suwar, Eng.e.....	China ..	.1821 Cedar Street.
Town, Edith H., C.C.....	Va. ....	.1415 Chapin Street.
Tracy, Ethel Wynne, Ed.....	D. C. ..	The Willson.

Name.	Legal residence.	City address.
Truesdell, Stephen Riggs, Eng.c....	D. C. ..	1121 Harvard Street.
Tucker, Prescott Stearns, C.C.....	D. C. ..	633 G Street, N. E.
Tulloss, Joseph Clark, Eng.m.....	Va. ....	1110 F Street.
Tunstall, Florence Marie, C.C.....	D. C. ..	1302 L Street.
Turnburke, Vernon Palmer, Eng.e....	D. C. ..	403 P Street.
Udy, Stanley Hart, C.C.....	N. Y. ..	Dept. of State.
Underwood, Harriet, Ed.....	N. Y. ..	3223 N Street.
Underwood, M. L., Ed.....	D. C. ..	129 6th Street, N. E.
Van Alstyne, Harry Kendall, C.C....	N. Y. ..	The Bachelor.
Vance, Georgie E., C.C.....	D. C. ..	430 M Street.
Vandegrift, John Leslie, Eng.....	D. C. ..	209 H Street.
Vanden Bossche, Henry P., Eng.c....	Mass. ..	326 16th Street, S. E.
Van Kirk, Lloyd Howard, Eng.....	Pa. ....	1839 16th Street.
Van Vleck, William Cabell, Ed.....	D. C. ..	800 E Street, N. E.
Veihmeyer, Frank, Eng.c.....	D. C. ..	438 10th Street, S. W.
von Emdorf, Robert, Jr., Arch.....	Pa. ....	731 Girard Street.
Vorkoeper, John, C.C.....	D. C. ..	1433 New Jersey Ave.
Wadsworth, Marth Blow, Ed.....	D. C. ..	1801 Massachusetts Ave.
Waggaman, Clarke, Arch.....	D. C. ..	2600 Connecticut Ave.
Wagner, S. Peter, Arch.....	Md. ....	Rockville, Md.
Walker, Alberta, Ed.....	D. C. ..	1634 S Street.
Walker, Bertha F., Ed.....	D. C. ..	420 B Street, N. E.
Walter, Wallace Wilson, C.C.....	Pa. ....	3317 R Street.
Walton, George Pelham, C.C.....	D. C. ..	Langdon, D. C.
Wandelaer, Isabel de, Arch.....	D. C. ..	1409 Newton Street.
Ward, Philip Henry, Jr., Eng.e.....	D. C. ..	1756 Pennsylvania Ave.
Washburn, Martha, Ed.....	Mass. ..	Nat'l Cathedral School.
Waters, Joseph Henry, Eng.c.....	D. C. ..	3227 11th Street.
Waters, Suzanne Beatrice, Ed.....	Wis. ....	3009 11th Street.
Watts, Mary Jane, Ed.....	D. C. ..	1206 Columbia Road.
Weller, Ethel Marguerite, C.C.....	D. C. ..	753 8th Street, S. E.
Wenderoth, Ernest Ferdinand, Eng.e.	N. Y. ..	Bureau of Standards.
Wenz, Edward Lucas, Arch.....	Ohio ....	1113 L Street.
White, Marian, Ed.....	Iowa ....	1430 W Street.
White, Mary Josephine, Ed.....	Ohio ....	National Park Seminary, Forest Glen, Md.
White, Mabel Louise, C.C.....	Miss. ..	Treasury Department.
White, Sarah Eskridge, Ed.....	D. C. ..	213 C Street, S. E.
Whitley, Isabel Alice, C.C.....	Ill. ....	1150 N. Capitol Street.
Wiegand, Henry Frank, Eng.e.....	D. C. ..	824 6th Street, S. W.
Wild, Alfred E., Jr., Eng.....	D. C. ..	12 10th Street, N. E.
Wilgus, Blanche, C.C.....	D. C. ..	1848 3d Street.
Will, Ernest McKeige, Arch.....	Fla. ....	47 S Street.



Name.	Legal residence.	City address.
Willard, Clayton Edwin, C.C.....	D. C. ....	39½ Bates Street.
Williams, Charles Wesley, Eng.....	Pa. ....	232 P Street.
Williams, Pascoe W., C.C.....	Va. ....	Treasury Department.
Willis, Eppa Hunton, Arch.....	D. C. ....	635 9th Street, N. E.
Wills, R. Mayo, Eng.....	Va. ....	603 H Street.
Willson, Charles C., Eng.m.....	D. C. ....	57 R Street, N. E.
Wilson, David Edward, Ed.....	D. C. ....	1012 Park Road.
Wilson, John Joseph, Arch.....	Conn. ....	1408 V Street.
Wilson, Ruth, C.C.....	D. C. ....	214 P Street.
Winlock, Peyton, Arch.....	D. C. ....	1012 22d Street.
Winter, Max W., Eng.c.....	Nebr. ....	1448 Clifton Street.
Wise, Clarence Edward, C.C.....	Ind. ....	Silver Spring, Md.
Wiseman, Edward Wallace, Eng....	Mo. ....	3629 11th Street.
Witten, Aubrey B., Arch.....	D. C. ....	2518 13th Street.
Woodward, Esther, Ed.....	D. C. ....	125 New York Ave.
Woodwell, Carolus Sylvester, C.C...	Fla. ....	930 16th Street.
Workman, Robert DuBois, C.C....	Pa. ....	Marine Barracks.
Wrightson, James Owens, C.C.....	D. C. ....	812 20th Street.
Wyeth, John Churchill, Eng.c.....	Ariz. ....	The Cordova.
Yang, Sui Chi, Eng.c.....	China ..	Chinese Legation.
Ying, T. W., Eng.....	China ..	813 12th Street.
Yoder, Bertha Alice, Ed.....	Kans. ....	144 11th Street, S. E.
Yoder, Bessie Lee, Ed.....	Kans. ....	144 11th Street, S. E.
Young, Floyd D., C.C.....	Ore. ....	1446 N Street.
Young, Irene Ottilie, C.C.....	Iowa ...	2210 Pennsylvania Ave.

## Summary.

## GRADUATE STUDENTS:

Students in attendance.....	14
Candidates for the D.C.L. degree.....	2
Candidates for the C.E. degree.....	3
Candidates for the E.E. degree.....	4
Candidates for the M.S. degree.....	9
Candidates for the M.A. degree.....	30
Candidates for the Jur.D. degree.....	1
Candidates for the Ph.D. degree.....	51

— 114

## UNDERGRADUATE STUDENTS:

## Columbian College:

Candidates for the B.A. degree.....	136
Candidates for the B.S. degree.....	14
Candidates for the B.S. in Chem. degree.....	26
Special .....	123

— 299

## Washington College of Engineering:

Candidates for the B.S. in C.E. degree.....	63
Candidates for the B.S. in E.E. degree.....	46
Candidates for the B.S. in M.E. degree.....	29
Special .....	53
	— 191

## Division of Architecture:

Candidates for the B.S. in Arch. degree.....	14
Special .....	42
	— 56

## Division of Education:

Candidates for the B.A. degree.....	55
Special (including Arts and Crafts).....	91
	— 146

Total ..... 806

## COLLEGE OF THE POLITICAL SCIENCES.

Name.	Legal residence.	City address.
Allen, John Clarence.....	D. C. ....	1756 Church Street.
Altizer, Posey J.....	Ky. ....	1104 12th Street.
LL.B., 1908, The George Washington University.		
Anderson, Edward, Jr.....	Md. ....	803 12th Street.
Atkinson, Charles Raymond.....	Wyo. ....	1119 K Street.
Bayard, Philip .....	Del. ....	4 Iowa Circle.
Bendz, Waldman R.....	Md. ....	Beltsville, Md.
Bowen, Leonard .....	Va. ....	1025 22d Street.
Bowen, Norris .....	Va. ....	1025 22d Street.
Bryan, Albert W.....	Md. ....	Y. M. C. A. Bldg.
Bunch, Tillman .....	S. C. ....	727 13th Street.
Burch, George O.....	D. C. ....	1724 Newton Street.
Campbell, Robert Stuart.....	D. C. ....	3019 24th Street, N. E.
Carlson, Oscar H. W.....	Pa. ....	62 Rhode Island Ave.
Carmody, John D.....	Md. ....	1213 Vermont Ave.
A.B., 1893, Gonzaga College.		
Carroll, Louis W.....	D. C. ....	130, The Portner.
Carstairs, Charles Haseltine.....	Pa. ....	1737 N Street.
Clark, Frederic N.....	Mich. ....	3601 13th Street.
B.S., 1889, Michigan State Agricultural College.		
Costa, Alberto Palacios.....	Arg. Rep..	The Benedick.
Creecy, Donald Brooke.....	D. C. ....	2150 P Street.
dei Medici, Gino V. S.....	Italy ....	1728 Columbia Road.
Dodd, Philip Lindsley.....	N. J. ....	824 Connecticut Ave.



Name.	Legal residence.	City address.
Domeratzxy, Louis .....	Russia .....	1335 F Street.
Eldridge, Chester W.....	Mass. ....	1217 Harvard Street.
Fleming, Robert V.....	D. C. ....	1408 Massachusetts Ave.
Forbes, Daniel R.....	D. C. ....	1211 Girard Street.
Fort, J. Carter.....	D. C. ....	1613 30th Street.
Frost, Wesley .....	Ky. ....	1117 17th Street.
A.B., 1907, Oberlin College.		
Glessner, John A.....	Pa. ....	206 10th Street, N. E.
Greene, Bertram William B.....	D. C. ....	1829 Jefferson Place.
B.S., 1902, Massachusetts Institute of Technology.		
Hall, Francis Cadwalader.....	D. C. ....	Bu. of Statistics, Com. & Labor.
Hamm, Theodore Cushing.....	Calif. ....	Union Building.
Hardie, W. Vincent.....	Okla. ....	Interstate Commerce Commission.
Hart, Harry L.....	Kans. ....	919 20th Street.
Hayward, Afton Smith.....	Mass. ....	1136 25th Street.
B.S., 1906, Amherst College.		
Henry, Philip S.....	N. C. ....	1239 Vermont Ave.
A.B., London University.		
Holder, Charles Adams.....	Colo. ....	Hotel Normandie.
Hunt, John Stuart.....	Texas ....	1717 Euclid Street.
Ilustre, Eustacio C.....	P. I. ....	726 12th Street.
LL.B., 1908, The George Washington University.		
Jaeger, Oscar Ralph.....	Iowa ....	823 19th Street.
Kent, Otis Veall.....	Texas ....	The Carolina.
LL.B., 1907, LL.M., 1908, Georgetown University.		
Kimber, Emmor Harper.....	N. Y. ....	1311 K Street.
Laing, James Oliver.....	Mo. ....	Hotel Gordon.
Lamason, Orville B.....	N. J. ....	1708 P Street.
Lane, C. E.....	D. C. ....	1708 P Street.
Larzelere, Charles LaVerne....	Mich. ....	1538 17th Street.
Levin, Michael .....	Wisc. ....	Light House Board.
Lewis, Leon Lawrence.....	Wisc. ....	The Iroquois.
McKenna, Coe Aloysius.....	Ore. ....	1413 V Street.
McLaughlin, F. M.....	Iowa ....	217 East Capitol Street.
Mapa, Emilio .....	P. I. ....	813 12th Street.
Martin, William M.....	Va. ....	1408 H Street.
Merritt, Eugene .....	D. C. ....	1778 Willard Street.
A.B., 1903, Cornell University.		
Merritt, Leonard A.....	Minn. ....	154 F Street, S. E.
LL.B., 1904, LL.M., 1905, The George Washington University.		

Name.	Legal residence.	City address.
Messer, Mary Burt.....	D. C. ....	Washington College, 3d and T St., N. E.
Neighbors, H. Fletcher.....	N. Y. ....	1760 Church Street.
Newcomb, Harold W.....	Mass. ....	Y. M. C. A.
Pearson, Edmund Lester.....	Mass. ....	1729 H Street.
A.B., 1902, Harvard University.		
B.L.S., 1904, University of New York.		
Randolph, Vivien Peyton.....	Miss. ....	1105 17th Street.
A.B., 1908, Randolph-Macon College.		
Redwood, Charles Cannon.....	Texas ....	1122 Vermont Ave.
LL.M., 1908, National University.		
Rogers, Silas Wesley.....	Ark. ....	1831 G Street.
LL.B., 1906, University of Arkansas.		
Rohrer, Joseph R.....	Ohio ....	1105 K Street.
Schuette, Oswald F.....	Ill. ....	1745 K Street.
Shuck, Walter L.....	Md. ....	Dept. of Agriculture.
Sidell, William E.....	N. J. ....	1317 Q Street.
Smith, Arthur Donaldson.....	N. C. ....	Hotel Grafton.
A.B., 1885, M.D., 1889, University of Pennsylvania.		
Smithers, George F.....	Del. ....	1337 L Street.
Sommers, Walter Allwood.....	N. Y. ....	657 F Street, N. E.
LL.B., 1906, LL.M., 1907, The George Washington University.		
Stambaugh, George Bingham....	D. C. ....	3833 14th Street.
Stephenson, Lowry Boyd.....	D. C. ....	1727 Riggs Place.
Stubblefield, Simon Peter.....	Miss. ....	2024 G Street.
B.S., 1908, University of Mississippi.		
Thatcher, Charlie E.....	Neb. ....	928 B Street, N. E.
Thomas, Sidney Taylor, Jr.....	D. C. ....	1726 20th Street.
Thomson, Alfred Ray.....	Md. ....	Silver Spring, Md.
Tyacke, Margaret .....	Mass. ....	1326 Park Road.
Vonnegut, Arthur .....	Ind. ....	1028 17th Street.
A.B., 1906, Cornell University.		
Waters, William Clark.....	D. C. ....	716 14th Street.
Wiest, Edward S.....	Pa. ....	1433 Massachusetts Ave.
Willett, Albert W.....	D. C. ....	2519 Connecticut Ave.
Wilson, Lee R.....	D. C. ....	16th & Lawrence Sts., N. E.
Wilson, William Ewing.....	D. C. ....	761 Girard Street.
Winship, North .....	Ga. ....	East Falls Church, Va.
Woodmansee, Arthur .....	Ohio ....	2011 G Street.
Woolsey, Lester Hood .....	N. Y. ....	1404 Park Road.
A.B., 1901, Harvard University.		
LL.B., 1908, The George Washington University.		



Name.	Legal residence.	City address.
Worthington, A. Saunders.....	Ohio .....	3009 Q Street.
Yaeger, William Leonard, Jr.....	D. C. ....	Int. Bldg. Corp'n.
Yen, Weiching Williams.....	China .....	2001 19th Street.
B.A., 1897, University of Virginia.		
Litt.D., Emperor of China.		
Zapf, Lacey C.....	Tenn. ....	1311 K Street.
A.B., 1906, De Pauw University.		
Zapf, Louis R.....	Tenn. ....	1311 K Street.
A.B., 1906, De Pauw University.		
Zapoleon, Louis B.....	Ohio .....	515 13th Street.

## Summary.

Candidates for A.B. degree.....	9
Candidates for M.Dip. degree.....	11
Special .....	69
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## PROFESSIONAL DEPARTMENTS.

## DEPARTMENT OF LAW.

## Bachelor of Laws.

## First Year.

Name.	Legal residence.	City address.
Baer, David Alphonse.....	D. C. ....	3044 N Street.
Baldwin, Edward Damon.....	Ore. ....	1736 G Street.
B.Lit., 1906, Whitman College.		
Beneman, George .....	Md. ....	1336 7th Street.
Berger, Charles Pratt.....	Mich. ....	1313 Columbia Road.
Berry, James William.....	D. C. ....	14 3d Street, S. E.
Bloomer, George Beale.....	D. C. ....	1410 G Street.
Callister, Edward Richard.....	Utah ....	1333 R Street.
Carpenter, Newton Ford.....	D. C. ....	Apt. 62, The Wyoming.
Catlin, Henry William.....	Colo. ....	910 23d Street.
Chilcott, Ralph Waldo.....	Va. ....	Fairfax, Va.
B.S., 1908, South Dakota State College.		
Corrigan, John, Jr.....	Ga. ....	The Farragut.
Curl, Joseph Ryland.....	D. C. ....	2312 I Street.
Dodge, Parker Van Patten.....	D. C. ....	134 B Street, N. E.
S.B., 1907, Massachusetts Institute of Technology.		
DuBois, Henry Pastor.....	Pa. ....	1421 Chapin Street.
M.E., 1907, Cornell University.		
Foo, Hsen Shuen.....	China ....	Apt. 22, The Madrid.
A.B., 1906, The Ching Chong School.		
Gerhardt, Louis Webster.....	Pa. ....	4 B Street, N. E.
Geyer, Berkeley Willard.....	D. C. ....	1923 S Street.
C.E., 1907, Princeton University.		
Gross, LeRoy Coates.....	N. J. ....	718 21st Street.
Hutchins, William Ambrose.....	Ohio ....	1217 Harvard Street.
Hutchinson, Frederick Porter....	Kans. ....	1119 17th Street.
Johnston, Horace Stuart.....	D. C. ....	122 F Street, S. E.
Knox, Hugh Smith.....	Pa. ....	1527 K Street.
B.A., 1907, Yale University.		
Lamas y Almansa, Dionisio.....	Cuba ....	1414 N Street.
Lambeck, Arthur Hugo.....	Wisc. ....	Apt. 34, The Ventosa.
B.A., 1907, University of Wisconsin.		
Leavitt, Ezekiel .....	D. C. ....	1201 N. Capitol Street.
Odessa Gymnasium, Russia.		
Lloyd, Thomas Leslie.....	Mo. ....	The Olympia.



Name.	Legal residence.	City address.
Marye, Tench Tilghman.....	D. C. ....	1526 29th Street.
Mather, James .....	Eng. ....	711 5th Street, N. E.
Moore, Richard Gray.....	Mass. ....	
Nicholson, Soterios .....	Greece ....	1801 G Street.
Phillips, Henry Jeter.....	Va. ....	Geo. Washington Hotel.
Place, Ernest Frederic Alan.....	N. Y. ....	House of Rep.
Schoenfeld, Hans Fred. Arthur...	N. J. ....	3448 34th Place, Cleve- land Park, D. C.

B.A., 1907, The George Washington University.

Taylor, Bright Hopkins.....	Mo. ....	Rockville, Md.
Tilton, Rufus Harold.....	Mass. ....	220 2d Street, N. E.

Ph.B., 1908, Wesleyan University.

Towles, Henry Orme.....	D. C. ....	1124 12th Street.
Treat, Howard Alton.....	Minn. ....	Y. M. C. A.
Whitestone, Isadore David.....	Pa. ....	House of Rep. Office Bldg.

A.B., 1908, Yale University.

Wood, William Morton.....	Minn. ....	House of Rep. Office Bldg.
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#### Second Year.

Adams, William Waugh.....	N. Y. ....	1423 S Street.
Agee, John Hercules.....	Nebr. ....	1736 G Street.
Allee, James Frank, Jr.....	Del. ....	516 13th Street.
Black, Charles Frederick.....	Vt. ....	1404 15th Street.

Ph.B., 1907, University of Vermont.

Blount, Walter Eames.....	D. C. ....	3101 R Street.
Brantley, William Gordon, Jr....	Ga. ....	2024 G Street.

A.B., 1907, University of Georgia.

Campbell, Philip Barrand.....	D. C. ....	1977 Biltmore Street.
Dodson, James Dunbar.....	D. C. ....	1714 F Street.
Dutton, Clarence Benjamin.....	Mass. ....	1412 15th Street.
Everett, Frank Orear.....	Mo. ....	916 14th Street.
Faulkner, William Ernest.....	Ky. ....	455 G Street.

B.A., 1907, Union College.

Ford, Frank Farnsworth.....	Mich. ....	1931 K Street.
Gates, Edward Percy.....	D. C. ....	3506 Center Street.

B.A., 1908, The George Washington University.

Graff, William Archibald.....	Va. ....	114 E Street.
Hellen, Arthur .....	D. C. ....	1731 20th Street.
Holcombe, Amasa Maynard.....	Mass. ....	1829 Corcoran Street.

B.S., 1904, Massachusetts Institute of Technology.

Name.	Legal residence.	City address.
Hubbard, Lyle .....	Iowa .....	1700 15th Street.
Hunter, Clyde Elliott.....	Md. ....	Y. M. C. A.
Hupper, Roscoe Henderson.....	Me. ....	812 East Capitol Street.
A.B., 1907, Bowdoin College.		
Kitselman, Harry Louis.....	Ind. ....	406 The Burlington.
Lambert, Chester Cromer.....	D. C. ....	2127 15th Street.
LeDuc, Louis Bronson.....	D. C. ....	1403 21st Street.
Mackenzie, Robert Lundie.....	Ore. ....	1011 H Street.
MacPhail, Leland Stanford.....	Mich. ....	Apt. 14, The Columbia.
McClenon, Walter Holbrook.....	S. D. ....	1106 P Street.
A.B., 1907, Iowa College.		
Moore, Josiah Arthur.....	Ill. ....	1404 Massachusetts Ave.
B.S., Millikin University.		
Oberlin, John Jay.....	Md. ....	Patent Office.
A.B., 1901, Washington and Lee University.		
Parker, Francis Joseph.....	S. D. ....	4 B Street N. E.
Pease, Ferdinand Henry.....	Vt. ....	1404 15th Street.
B.A., 1907, University of Vermont.		
Schultz, Detlef Henry.....	Ind. ....	26 Iowa Circle.
Simmons, Berkeley Leo.....	D. C. ....	1421 Belmont Street.
Simmons, William Wyatt.....	Miss. ....	1105 K Street.
B.A., 1905, Mississippi College.		
Sincerbeaux, Chauncey Milton...	N. Y. ....	1920 I Street.
A.B., 1905, Yale University.		
Singleton, Ogle Ridout.....	D. C. ....	2020 H Street.
B.A., 1908, The George Washington University.		
Smith, Thomas William.....	Idaho ....	Y. M. C. A.
Smith, William Henry.....	Mont. ....	714 18th Street.
Smithers, Nathaniel Barratt.....	Del. ....	518 13th Street.
Smoot, John Daniel Kurtz.....	Va. ....	Langley, Va.
Spencer, Thomas Peachy.....	Va. ....	The Iroquois.
A.B., 1905, William and Mary College.		
Swift, John Tuttle.....	Mass. ....	26 Iowa Circle.
Taylor, Kenneth .....	Minn. ....	1433 Belmont Street.
B.S., 1907, Carleton College.		
Van Vleck, William Cabell.....	D. C. ....	800 E Street, N. E.
B.A., 1908, The George Washington University.		
Wilmer, Edward George.....	Wisc. ....	308 F Street.
Wyatt, Hardee .....	N. Mex. ...	811 13th Street.
B.A., B.S., L.L., 1900, University of Nashville.		
Zirkle, Joseph Claiborne.....	Va. ....	837 Shepherd Street.



## Third Year.

Name.	Legal residence.	City address.
Adams, Thomas Berton.....	Fla. ....	912 H Street. B.A., 1902, University of Nashville.
Aldrich, Charles Roberts.....	Ill. ....	The Benedick. B.A., 1903, Yale University.
Allen, Charles Louis.....	S. D. ....	1700 15th Street.
Ambrose, George Lewis.....	Mont. ....	1333 R Street.
Arlitt, John Louis.....	Texas ....	2024 G Street.
Banning, Archibald Tanner, Jr....	N. Y. ....	1445 Massachusetts Ave. A.B., 1904, Cornell University.
Barndollar, Burton Hack.....	Pa. ....	3510 N. H. Ave.
Barr, James .....	Wisc. ....	2024 G Street.
Barrick, Henry Llewellyn.....	Neb. ....	The Plymouth.
Bigoness, Octave Adelbert.....	D. C. ....	Little Falls Road, D. C.
Birney, William McDonald.....	D. C. ....	1516 22d Street.
Biscoe, John Edward .....	D. C. ....	The Farragut. Grad. Engr., 1904, Virginia Military Institute.
Briggs, Benjamin Franklin.....	Me. ....	26 Iowa Circle.
Bruninga, John Hermann.....	Ill. ....	Patent Office.
Cable, John Levi.....	Ohio ....	1700 15th Street. L.B., 1906, Kenyon College.
Carpenter, Walter Clayton.....	R. I. ....	The Mendota. Ph.B., 1906, Brown University.
Caywood, Charles Chester.....	D. C. ....	1629 Newton Street.
Childs, Frederick Willard.....	Vt. ....	The Champlain.
Clark, Chester Morrow.....	D. C. ....	Florence Court. A.B., 1907, Harvard University.
Cragin, Harry Seymour.....	D. C. ....	1013 L Street.
Dallwig, Paul .....	Wisc. ....	903 13th Street.
Dallzell, Robert Duff.....	Pa. ....	1605 N. H. Ave. A.B., 1905, Yale University.
Davenport, Lewis Howard.....	N. Y. ....	2624 University Place.
DeLancy, Roi .....	Ohio ....	1226 11th Street. B.A., 1908, The George Washington University.
Edgerton, Frank Eugene.....	Neb. ....	115 4th Street, S. E. A.B., 1900, University of Nebraska.
Finney, Harry Whiting.....	D. C. ....	2204 Q Street.
Fravel, F. Russell.....	Mass. ....	1016 15th Street.
Garrett, Clyde Davis.....	D. C. ....	945 O Street.
Glennan, Arthur Wyman.....	D. C. ....	Columbian Building.
Gonzalez, Antonio Cornelius, Jr....	N. Y. ....	1417 K Street.
Graves, Pleasant Fowler.....	Texas ....	26 Iowa Circle. Ph.B., 1905, Southwestern University.

Name.	Legal residence.	City address.
Haines, Milton .....	Ohio .....	U. S. Capitol.
B.S., 1898, Ohio Northern University.		
Haselton, George Irving.....	N. H. ....	1002 N Street.
Hemmick, Frank Schley.....	D. C. ....	1700 15th Street.
Horner, Errol Osman.....	N. J. ....	1700 15th Street.
Hutchins, Wells Aleck.....	D. C. ....	1401 Massachusetts Ave.
Jenkins, Warren Maxwell.....	Pa. ....	26 Iowa Circle.
A.B., 1906, Grove City College.		
Jensen, John .....	Utah .....	1333 R Street.
B.A., 1906, University of Utah.		
Kelly, Jerome Elmer.....	S. D. ....	Senate Post Office.
Kester, Bruce Randall.....	Pa. ....	The Brunswick.
Koons, George Hickman.....	Ind. ....	26 Iowa Circle.
Lawburgh, Robert Lee.....	Ind. ....	1714 15th Street.
A.M., 1905, De Pauw University.		
Leach, Harry Earl.....	Calif. ....	The Burlington.
Lohm, Albert Lafayette.....	W. Va. ....	House of Rep.
Micon, Richard Dunnica.....	Va. ....	Home Life Bldg.
B.A., 1903, M.A., 1903, University of Virginia.		
Miller, Walter Karl.....	Kans. ....	33 B Street.
Nyemaster, Jesse Ray.....	Iowa ....	312 Md. Ave., N. E.
Phair, Philip DeWitt.....	Me. ....	131 A Street, N. E.
M.A., 1906, Harvard University.		
Pillow, Gideon Johnston.....	La. ....	1464 Clifton Street.
Riddleberger, Harrison Heath...	Va. ....	U. S. Senate.
Roche, Sidney .....	D. C. ....	1325 1st Street, S. W.
Smith, Dyer .....	Pa. ....	East Orange, N. J.
M.E., 1903, Lehigh University.		
Smith, George Thomas.....	Md. ....	3635 11th Street.
Stuart, Paul Allison.....	Pa. ....	26 Iowa Circle.
A.M., 1906, Washington and Jefferson College.		
Sullivan, Horace Moore.....	Tenn. ....	230 N. Capitol Street.
Thomas, Bert Carl.....	Ohio ....	1615 Florida Ave.
Tyrer, Arthur James.....	Wash. ....	The Albemarle.
Ulke, Titus .....	D. C. ....	411 15th Street.
E.M., 1889, Royal Academy of Mines, Freiberg, Saxony.		
Wagner, Harold J.....	N. Y. ....	State Department.
Wallace, Alfred, Jr.....	S. C. ....	614 M Street.
LL.B., 1908, University of South Carolina.		
Whiting, Roscoe Everett.....	Wash. ....	Stratford Hotel.
A.B., 1901, Bowdoin College.		



## Bachelor of Law.

## First Year.

Name.	Legal residence.	City address.
Andersen, Charles .....	Texas .....	216 N. Capitol Street.
Bean, George Tinny.....	D. C. ....	Patent Office.
Boughton, Solon James .....	Ohio .....	2024 G Street.
Brookes, John St. Clair, Jr.....	D. C. ....	1525 Corcoran Street.
A.B., 1907, The George Washington University.		
Burns, Walter William.....	N. Y. ....	1321 Q Street.
M.E., 1906, Cornell University.		
Byrd, Harry Clifton.....	Md. ....	1204 K Street.
B.S. in C.E., Maryland Agricultural College.		
Byrn, Edward Wright, Jr.....	Md. ....	627 F Street.
Carpenter, John Condict.....	D. C. ....	1318 Vermont Ave.
M.E., 1908, Cornell University.		
Chapman, Henry Hendley.....	D. C. ....	913 New York Ave.
Clark, Horace Fletcher, Jr.....	D. C. ....	1460 Harvard Street.
Councilor, James Allan.....	Iowa .....	2012 1st Street.
Cox, Henry Aubrey.....	Tenn. ....	711 Mt. Vernon Place.
Davis, Warren Jefferson.....	Va. ....	Apt. 129, The Cairo.
B.A., 1903, Eastern College.		
Dean, Franklin Augustus, Jr.....	Pa. ....	The Mendota.
A.B., 1907, Yale University.		
Disque, William Alfred.....	Ky. ....	Y. M. C. A.
Egner, Daniel Webster.....	Md. ....	War Department.
Eickhoff, Theodore Henry.....	Ind. ....	1522 16th Street.
B.S. in E.E., 1908, Purdue University.		
Fauntleroy, John Smith Young...La. ....	House of Rep.	
A.B., 1905, Louisiana State University.		
Fischer, Stanley Herman.....	D. C. ....	1515 T Street.
Fraser, William Wright.....	Md. ....	1414 15th Street.
A.B., 1903, New Windsor College.		
French, Francis Raymond.....	D. C. ....	The California.
Geiman, Daniel J.....	Va. ....	1404 M Street.
Gerhart, Herbert Benjamin.....	Pa. ....	1845 Calvert Street.
Gill, Walter Josiah, Jr.....	Mass. ....	Patent Office.
S.B., 1904, Massachusetts Institute of Technology.		
Glazer, Jacob Bennett.....	N. Y. ....	603 H Street.
Goode, Philip Burwell.....	D. C. ....	Patent Office.
A.B., 1907, Harvard University.		
Gray, Jay Lyman.....	Me. ....	812 East Capitol Street.
A.B., 1908, Bowdoin College.		
Griffin, John Calvin.....	N. Y. ....	The Naples.
Ph.B., 1908, Syracuse University.		

Name.	Legal residence.	City address.
Hart, Wayne Maris.....	D. C. ....	1536 6th Street.
Herriott, David Paul.....	Pa. ....	1700 15th Street.
A.B., 1905, Washington and Jefferson College.		
Hilton, Charles Vanderbilt.....	Md. ....	3264 N Street.
Howes, John William.....	Mass. ....	930 F Street.
Hynson, Richard Washburn.....	D. C. ....	1335 N Street.
Kemper, Edward Crawford.....	D. C. ....	1512 Park Road.
Kause, Arthur John.....	D. C. ....	1905 Jackson St., N. E.
Lamb, Orrin Vestal.....	S. D. ....	1000 M Street.
Lilly, Scott Henry.....	Iowa ....	4122 7th Street.
B.A., 1897, Cornell College.		
Littlefield, John Cottle.....	Utah ....	1312 12th Street.
Long, Franklin Samuel.....	D. C. ....	2206 Flagler Place.
Manning, George Madison A....	Ky. ....	1304 13th Street.
Mechlin, Ernest Frederick.....	D. C. ....	3020 Cambridge Place.
B.S., 1907, The George Washington University.		
Meyer, Harry Edwin.....	Ohio ....	2616 Connecticut Ave.
Miller, Herman .....	Neb. ....	Patent Office.
B.S., 1898, Nebraska Wesleyan University.		
Moyer, Samuel .....	Pa. ....	323 W Street, N. E.
Mueller, Edward Louis.....	D. C. ....	803 8th Street.
Myers, John Dashiell.....	D. C. ....	The Vermont.
Neal, Franklin Gilman.....	Mass. ....	1623 Park Road.
Ph.B., 1908, Yale University.		
Owen, Richard Blakelock.....	D. C. ....	1715 Kilbourne Place.
Palais, Maurice .....	Mass. ....	206 Indiana Ave.
Perry, Jesse Greene.....	Ga. ....	227 New Jersey Ave.
Phelps, Claude Bascombe.....	Ala. ....	1113 O Street.
Preston, J. Stanley.....	N. Y. ....	1736 G Street.
Reavis, Andrew Bryant.....	Tenn. ....	3555 11th Street.
Rich, Samuel Grover.....	Idaho ....	
B.S. in Chemistry, Agricultural College of Utah.		
Roadstrum, Victor Nelson.....	Ill. ....	1435 K Street.
Robinette, Howard Augustine....	D. C. ....	15 3d Street.
Rowland, Guy Edwin.....	Texas ....	1519 Rhode Island Ave.
Rush, Clifford Alvin.....	Kans. ....	938 K Street.
Sheridan, Thomas Harold.....	N. H. ....	Y. M. C. A.
Smith, Charles Watson.....	Pa. ....	1111 M Street.
Smith, Jesse Bond.....	D. C. ....	Takoma Park, D. C.
Somerville, Robert Nugent.....	Miss. ....	345 House of Rep.
A.B., 1907, University of Mississippi.		
Stebbins, George Edwin.....	Mass. ....	Patent Office.
A.B., 1903, Bates College.		
Ph.D., 1907, Clark University.		



Name.	Legal residence.	City address.
Stinchfield, Ray Lewis.....	Mass. ....	Y. M. C. A. B.S., Worcester Polytechnic Institute.
Stockslager, William Morse.....	Idaho ....	Y. M. C. A. A.B., 1907, Valparaiso University.
Stratton, David Vincent.....	Ore. ....	
Thorp, Clarendon Herbert.....	Ohio ....	419 6th Street.
Walker, John Earl.....	Mich. ....	1119 17th Street. B.S., 1907, Kalamazoo College. B.S., 1907, Chicago University.
Wann, Eugene Charles.....	D. C. ....	144 F Street, S. E.
West, Martin Raymond.....	D. C. ....	138 11th Street, S. E.
Wilson, Charles Shafer.....	D. C. ....	108 G Street.
Windsor, Lemuel Henry.....	D. C. ....	145 E Street, S. E.

## Second Year.

Bradley, Paul Earl.....	Ill. ....	2451 18th Street.
Brisbine, Dawes Ellsworth.....	S. D. ....	U. S. Senate Post Office.
Brohough, Oscar C.....	Minn. ....	819 5th Street. B.A., 1903, University of Minnesota.
Calder, Albert Russell.....	Pa. ....	917 N. C. Ave., S. E.
Crafts, Frederick Albert.....	Mass. ....	206 Pa. Ave., S. E.
Dahn, Franz Frederick Wm.....	Iowa ....	1515 O Street.
Garrett, George Everett.....	Va. ....	101 8th Street, S. E.
Grover, William Robinson.....	Mich. ....	1205 N Street. Ph.B., 1907, Kalamazoo College.
Guasp, Ignacio .....	Porto Rico.	2024 G Street.
Hill, Herman Henry.....	N. H. ....	60 M Street. A.B., 1907, Dartmouth College.
McCray, Claud Henry.....	N. Y. ....	G. W. U. B.S., 1907, Hobart College.
O'Neal, Warwick Christy.....	D. C. ....	807 Varnum Street. C.E., 1906, Pennsylvania Military College.
Seiler, Justin Frank.....	Ohio ....	American Univ. Heights. B.A., 1908, The George Washington University.
Smith, Conger Ryder.....	Mich. ....	Y. M. C. A.
Thompson, Oscar .....	Wisc. ....	Treasury Dept.
White, Herbert William.....	Iowa ....	1700 15th Street. Ph.B., 1907, Simpson College.

## Third Year.

Gilmore, Thomas Mador, Jr.....	Ky. ....	Bond Building.
Homer, John Albert.....	Utah ....	1806 H Street.

## STUDENTS IN THE UNIVERSITY.

233

Name.	Legal residence.	City address.
Meriam, Lewis .....	Mass. ....	Bureau of the Census.
A.B., 1905, A.M., 1906, Harvard University.		
Ott, Alfred Walter.....	Ky. ....	2517 14th Street.
Pearce, Harry Hamlin.....	Mich. ....	1700 15th Street.
A.B., 1905, Albion College.		
Scantling, Philip Lee.....	D. C. ....	1627 R Street.
Swenarton, Harold Augustus.....	N. J. ....	1538 17th Street.
Ph.B., 1905, Yale University.		

## Special.

Babcock, Richard Earle.....	D. C. ....	707 G Street.
Behrmann, Carl Martin.....	Ill. ....	Y. M. C. A.
Billingsley, Jesse Lee.....	Fla. ....	Metropolitan Hotel.
Borchardt, Edwin Montefiore.....	N. Y. ....	1734 U Street.
B.S., 1905, Columbia University.		
LL.B., 1908, New York Law School.		
Bouhan, John J.....	Ga. ....	1124 8th Street.
B.Let., 1905, St. Mary's College.		
Bowen, John M.....	Mass. ....	719 E. Capitol Street.
Bullion, Clarence Leroy.....	Ohio ....	1305 Rhode Island Ave.
Calvert, John Wentworth.....	Md. ....	1750 Corcoran Street.
Catlin, Frank Durand, Jr.....	Colo. ....	910 23d Street.
Childs, Homer Alexander.....	Minn. ....	150 Tennessee Ave.
Cissell, John Floyd.....	Md. ....	Silver Spring, Md.
Cohen, Abe .....	Wisc. ....	1013 O Street.
Curran, Thomas Leo.....	D. C. ....	305 1st Street, S. E.
Davis, Harold William.....	Pa. ....	1736 G Street.
Ellis, Harry Van Horn.....	D. C. ....	203 C Street, N. E.
Farmer, James Price.....	D. C. ....	154 A Street, N. E.
Flather, Alfred Chester.....	D. C. ....	612 8th Street, N. E.
Gudmunsen, Isaac Ray .....	Idaho ....	804 19th Street.
Hart, Frederick Cecil.....	Colo. ....	The Normandie Hotel.
A.B., 1909, Harvard University.		
Hastings, Grover Cleveland .....	D. C. ....	The Madrid.
Hemenway, George R.....	Ind. ....	The Portland.
Hoover, Frank Willard.....	D. C. ....	1824 16th Street.
Houston, William Cannon, Jr....	Tenn. ....	112 3d Street, N. E.
Jacobs, Judson Wriley.....	Md. ....	14th and U Streets.
Jacobsen, Walter .....	Minn. ....	236 New Jersey Ave.
Kimber, Emmor Harper .....	N. Y. ....	1311 K Street.
King, Charles Albert.....	D. C. ....	1818 8th Street.
Koeppler, John Louis.....	Wisc. ....	504 3d Street.
Kreuttner, Joseph Warwick.....	Va. ....	The Westover.



Name.	Legal residence.	City address.
Landick, George, Jr.....	Ind. ....	1358 Fairmont Street.
Lerch, John George.....	D. C. ....	1520 M Street.
Lewis, George Lippitt.....	D. C. ....	The Mendota.
Mathews, Roy Lee.....	Ohio ....	3323 17th Street.
Matthews, Calvin Bruce.....	Tenn. ....	Navy Yard.
McGill, John Fauntleroy.....	D. C. ....	Marine Barracks.
Metsker, Glen Roy.....	Wash. ....	General Land Office.
LL.B., 1908, University of Washington.		
Moore, Hervey Studdiford.....	N. J. ....	1700 15th Street.
Patterson, Charles H.....	N. Y. ....	Army and Navy Club.
Graduate, 1903, United States Military Academy.		
Peck, George Curtis.....	N. Y. ....	House of Rep.
Phillips, Ivon William.....	N. Y. ....	3560 11th Street.
LL.B., 1908, The George Washington University.		
Ravenel, Gaillard FitzSimons....	D. C. ....	1611 Riggs Place.
LL.B., 1908, University of Virginia.		
Reed, Philip, Jr.....	Md. ....	Rockville, Md.
Stipe, William Frederick.....	Iowa ....	330 Md. Ave., N. E.
Thomas, Columbus Austin.....	D. C. ....	1231 Girard Street.
Turri, Giulio Luigi.....	Italy ....	The Highlands.
Doctor of Social Sci., 1905, Royal Institute of Social Science, Italy.		
Wallace, Sebon Rains.....	D. C. ....	1754 Willard Street.
Warden, Franklin Milton.....	Ill. ....	1764 U Street.
Watson, Paul Herbert.....	Kans. ....	1322 Kearney Street.

## Master of Patent Law.

Brandenburg, Edgar Thomas.....	N. Y. ....	Loan & Trust Bldg.
Bruninga, John Hermann.....	Ill. ....	Patent Office.
LL.B., 1908, The George Washington University.		
Davidson, Arthur William.....	Ohio ....	19 Grant Place.
B.A., 1899, Western Reserve University.		
LL.B., 1908, The George Washington University.		
Ferguson, John Alexander.....	Mich. ....	1318 Park Road.
LL.B., 1908, National University.		
Hallauer, Nelson A.....	N. Y. ....	Patent Office.
LL.B., 1908, National University.		
Hardy, William Abbott.....	Mass. ....	1615 Florida Ave.
LL.B., 1908, National University.		
Harris, Joseph William.....	Pa. ....	Patent Office.
LL.B., 1908, National University.		
Hendricks, Walter Frisby.....	Tenn. ....	1111 H Street.
LL.B., 1907, LL.M., 1908, National University.		

Name.	Legal residence.	City address.
Hidden, Charles Popham.....	N. Y. ....	1016 13th Street. M.E., 1897, Stevens Institute of Technology. LL.B., 1908, National University.
Jarboe, Charles Gwinn.....	Md. ....	The New Berne. A.B., 1896, A.M., 1901, St. John's College. LL.B., 1908, National University.
Jewett, Nelson Josiah.....	Mich. ....	3024½ R Street. LL.B., 1908, Georgetown University.
Johnston, Robert .....	Wyom. ....	Court of Claims. LL.B., 1906, National University.
Jones, George Bayard.....	D. C. ....	The Decatur. B.S., 1903, Massachusetts Institute of Technology. LL.B., 1908, The George Washington University.
Kneipp, Hugh .....	Ill. ....	313 5th Street, S. E. LL.B., 1901, University of Michigan.
McKay, Clarence Orson.....	Mich. ....	Patent Office. LL.B., 1908, National University.
MacNab, Forrest Burleigh.....	Mass. ....	1204 G Street, N. E. LL.M., 1907, National University.
Molloy, John .....	Md. ....	820 Munsey Building. LL.B., 1906, LL.M., 1907, Georgetown University.
Paddock, Lawrence Sands.....	N. J. ....	Patent Office. LL.B., 1908, National University.
Peck, Everett Johnson.....	N. J. ....	732 17th Street. LL.B., 1908, National University.
Pollard, Willard Lacy.....	Ill. ....	1615 Florida Ave. LL.B., 1908, National University.
Powell, John Goodwin.....	Va. ....	The Brunswick. LL.B., 1908, National University.
Ramsey, George William.....	Ill. ....	Patent Office. LL.B., 1908, The George Washington University.
Richey, Francis Olin.....	D. C. ....	732 17th Street. LL.B., 1908, National University.
Richmond, Carl A.....	Ill. ....	Marquette Bg., Chicago.
Rowley, Clifford Alonzo.....	D. C. ....	1344 Kenyon Street.
Shoemaker, William David.....	Md. ....	Patent Office.
Small, Warren Harvey.....	Mass. ....	Patent Office. A.B., 1903, Harvard University.
Tarbox, John Preston.....	S. C. ....	McGill Building. B.A., 1904, Clemson College. LL.B., 1908, National University.
Ulke, Titus .....	D. C. ....	411 15th Street. E.M., 1899, Royal Academy of Mines, Freiberg, Saxony. LL.B., 1908, The George Washington University.



Name.	Legal residence.	City address.
Wiegand, Gustave William.....	Minn. ....	900 K Street.
LL.B., 1902, LL.M., 1908, National University.		
Willard, Charles Franklin.....	Mass. ....	1333 Fairmont Street.
B.S., 1901, Massachusetts Institute of Technology.		
J.B., 1906, J.M., 1907, Boston University.		
Wilson, Ira Jay.....	Wisc. ....	Patent Office.
LL.B., 1908, The George Washington University.		

#### Special Students in Patent Law.

Braselton, Chester Harmon.....	Ill. ....	Patent Office.
B.S., 1904, Valparaiso University.		
Clark, Elmer A.....	D. C. ....	134 U Street.

#### Master of Laws.

Blakesley, Raphael Henry.....	Calif. ....	2517 14th Street.
LL.B., 1908, University of Southern California.		
Blanchard, Edwin Clay.....	Va. ....	808 Mass. Ave., N. E.
LL.B., 1908, Georgetown University.		
Calhoun, Clarence Crittenden....	Ky. ....	The Rochambeau.
M.Dip., 1905, The George Washington University.		
Fravel, F. Russell.....	Mass. ....	1016 15th Street.
LL.B., 1908, The George Washington University.		
Holmes, Rexford Louis.....	Mo. ....	1114 D Street, N. E.
LL.B., 1908, The George Washington University.		
Horn, Oscar Leonard.....	Calif. ....	1615 13th Street.
LL.B., 1908, University of Southern California.		
Legaspi y Villafior, José.....	P. I. ....	The Sherman.
Maddox, George Amory.....	Md. ....	1223 Vermont Ave.
A.B., 1896, A.M., 1899, St. John's College.		
LL.B., 1899, University of Maryland.		
Mapa, Emilio .....	P. I. ....	813 12th Street.
Newton, Clarence Frank.....	D. C. ....	Y. M. C. A.
LL.B., 1907, LL.M., 1908, National University.		
Sanderlin, George Bismarck.....	N. C. ....	509 4th Street.
A.B., 1899, A.M., 1900, Wake Forest College.		
LL.B., 1908, The George Washington University.		
Santos y Basco, José Abad.....	P. I. ....	Room 33, War Dept.
LL.B., 1908, Northwestern University.		
Ulke, Titus .....	D. C. ....	411 15th Street.
E.M., 1889, Royal Academy of Mines, Freiberg,		
Saxony.		
LL.B., 1908, B.S., 1909, The George Washington		
University.		
Willis, Robert Chadwick.....	N. C. ....	300 10th Street, N. E.
A.B., Guilford College.		
LL.B., 1908, The George Washington University.		

## Review.

Name.	Legal residence.	City address.
Oberlin, Paca .....	Va. ....	Columbian Bldg.
LL.B., 1903, LL.M., 1904, Columbia University.		
M.Dip., 1905, The George Washington University.		
Symons, William Leonard.....	D. C. ....	Patent Office.
LL.B., 1895, LL.M., 1896, Columbia University.		
M.P.L., 1908, The George Washington University.		
Warner, Lee Frost.....	Minn. ....	Y. M. C. A.
LL.B., 1904, The Columbia University.		

## Review, M. P. L.

Giles, Louis Edward.....	Mich. ....	117, The Ontario.
B.S. in E.E., 1902, Columbia University.		
LL.B., 1907, M.P.L., 1908, The George Washington University.		

## Auditor.

Hicks, J. Addison.....	D. C. ....	Bond Bldg.
LL.B., Georgetown University.		

## Summary.

CANDIDATES FOR THE LL.B. DEGREE:	
First year .....	39
Second year .....	45
Third year .....	61
	— 145
CANDIDATES FOR THE B.L. DEGREE:	
First year .....	72
Second year .....	16
Third year .....	7
	— 95
CANDIDATES FOR THE M.P.L. DEGREE.....	32
CANDIDATES FOR THE LL.M. DEGREE.....	14
SPECIAL STUDENTS .....	48
SPECIAL STUDENTS IN PATENT LAW.....	2
REVIEW STUDENTS .....	3
REVIEW STUDENT IN PATENT LAW.....	1
AUDITOR .....	1
	—
	341
DUPLICATES .....	4
	—
	337



## DEPARTMENT OF MEDICINE.

## Doctor of Medicine.

## First Year.

Name.	Legal residence.	City address.
Borden, Daniel Le Ray.....	D. C. ....	Conduit Road.
Bricker, Sacks .....	D. C. ....	200 15th Street, S. E.
Calver, George W.....	D. C. ....	207 A Street, S. E.
Corbett, Lewell Munson.....	Va. ....	Arlington, Va.
Cram, Albert M.....	Vt. ....	1-2 Iowa Circle.
Eckhardt, John Carl.....	D. C. ....	1140 18th Street.
FitzHugh, William DeHart, Jr....	Pa. ....	Vienna, Va.
Fortier, Roy McLeay.....	D. C. ....	1723 Corcoran Street.
Gallion, John B.....	Okla. ....	Garfield Hospital.
Gallion, Thomas N.....	Okla. ....	Garfield Hospital.
Gray, Augustus Clagett.....	Md. ....	University Hospital.
Gray, Paul .....	D. C. ....	627 7th Street.
Hall, Custis Lee .....	D. C. ....	1408 Chapin Street.
Helfgott, Max Aaron.....	Russia ....	401 21st Street.
Helfgott, Nathan .....	Russia ....	401 21st Street.
Hankins, Harry Gordon.....	S. Africa ..	1210 12th St., N. W.
Hunter, Oscar Benwood.....	Va. ....	1305 22d Street.
Knott, Charles O.....	Va. ....	330 N. C. Ave., S. E.
Landis, Charles Caldwell.....	Cal. ....	
Luckett, George Sparr.....	D. C. ....	504 A Street, S. E.
Milburn, Frank Washington....	Va. ....	Alexandria, Va.
Moore, Charles S.....	Mich. ...	2523 University Place.
Pagan, Albert Elwood.....	D. C. ....	1965 Biltmore Street.
Posey, Orlando J.....	D. C. ....	540 5th Street, S. E.
Read, Boyd Richard.....	D. C. ....	1819 N. Capitol Street.
Rollings, John Adolph.....	W. Va. ....	1143 22d Street.
Ruppert, Charles Christian.....	D. C. ....	611 K Street, N. W.
Scarito, Nicolo .....	Italy ....	1021 8th Street.
Schaub, Gustav Adolphus.....	Texas ....	1419 Chapin Street.
Shea, George Marvin White....	D. C. ....	1502 P Street.
Sloat, Jesse Irving.....	D. C. ....	23 1st Street, N. E.
Travis, John Randolph.....	Va. ....	1234 Massachusetts Ave.

## Second Year.

Bacon, Walter Compton.....	D. C. ....	808 11th Street, N. E.
Bailey, William Otis.....	S. C. ....	1217 N Street.
Beauchamp, Ellis Franklin.....	Va. ....	1206 O Street.
Brewer, Gilbert Roscoe.....	Ill. ....	401 M Street, N. E.

Name.	Legal residence.	City address.
Brock, Charles Le Roy.....	D. C. ....	1912 9th Street.
Burnett, Roy Edgar.....	Okla. ....	1221 O Street.
Castleman, Philip .....	Mass. ....	902 Westminster Street.
Cox, Clem .....	Va. ....	641 D Street, S. E.
Crane, Charles George.....	N. Y. ....	1221 O Street.
Dougherty, Bernard Joseph.....	N. Y. ....	1105 14th Street.
Downey, Alice Winans.....	D. C. ....	2473 18th Street.
Dyer, John Christopher.....	Ohio ....	310 10th St., N. E.
Eisenberg, Arthur Alexander.....	D. C. ....	1213 4½ Street, S. W.
Ellison, Everett Monroe.....	Tenn. ....	411 3d Street.
Eppard, George I.....	Va. ....	1921 G Street.
Fisher, Charles Albert.....	Pa. ....	38 1 Street, N. E.
Hayton, Charles Henry.....	S. Africa	Foreign Mission'y Seminary, Takoma Park.
Hunt, Isaac Burton.....	Tenn. ....	702 H Street.
Ingle, Ernest Wilfred.....	S. Africa	1210 12th Street.
Irmen, Felix Arnold.....	D. C. ....	212 Morgan Street.
Jaeger, Henry William.....	D. C. ....	15 4th Street, S. E.
Jewell, Benson Mundy.....	Ill. ....	623 19th Street.
Kemeys, William .....	D. C. ....	1633 29th Street.
Kress, Ora Hannah.....	D. C. ....	Takoma Park, D. C.
Leonard, George Ferree.....	N. C. ....	1305 H Street.
Marquez, Ramón Isaac Janer....	Porto Rico	1024 17th Street.
Martin, Aaron Wise.....	N. C. ....	2040 I Street.
Molzahn, Albert John.....	Neb. ....	Methodist Home.
Mooers, Harold Alonzo.....	D. C. ....	Takoma Park, D. C.
Oliver, Harry Waterhouse.....	N. D. ....	2517 14th Street.
Parks, Anderson W.....	Colo. ....	511 10th Street.
Pitt, Richard V.....	Va. ....	816 18th Street.
Ralph, Charles Edward.....	Ill. ....	411 3d Street.
Read, Effie Alberta.....	Mass. ....	Dept. of Agriculture.
Rougeou, Charles Franklin.....	La. ....	1815 G Street, N. W.
Sharp, George Tarplit.....	D. C. ....	3101 Highland Ave.
Shoemaker, Ralph W.....	D. C. ....	3116 P Street.
Sinclair, Lieth Llewellyn.....	D. C. ....	327 M Street, S. E.
Smith, Arthur C.....	N. Y. ....	735 13th Street.
Zimmerman, Carl George.....	N. Y. ....	735 13th Street.

## Third Year.

Amoss, Harold Lindsay.....	Ky. ....	U. S. Dept. of Agric.
Andrews, Lawrin Lundy.....	Kans. ....	1327 N Street, N. W.
Beale, Kenneth Foster.....	Md. ....	831 7th Street.
Barrett, Park Mitchell.....	W. Va. ....	1102 L Street.



Name.	Legal residence.	City address.
Davis, George von Pullinger.....	Pa. ....	1307 9th Street.
Duenner, Robert Henry.....	Tenn. ....	1700 15th Street.
Elliott, Leo Louis.....	N. Y. ....	G. Washington Un. Hos.
Fetzer, Lewis William.....	N. Y. ....	338 Adams Street, N. E.
Frey, John Paul.....	D. C. ....	1224 30th St., N. W.
Glennan, Kenneth Rayner.....	Md. ....	Chevy Chase, Md.
Goss, Audrey .....	Kans. ....	1443 Massachusetts Ave.
Herring, Katherine M.....	Iowa ....	14th and Girard Sts.
Hoover, George W.....	Okla. ....	U. S. Dept. of Agric.
Hornaday, Frank A.....	D. C. ....	1310 N. C. Ave., N. E.
Huntington, William Henry.....	D. C. ....	2330 Massachusetts Ave.
Kerby, James Philip.....	D. C. ....	2606 L Street.
Kinner, Jesse Lee.....	N. Y. ....	
Klingerman, George E.....	Pa. ....	1519 Kingman Place.
Lewis, Harry Samuel.....	D. C. ....	54 I Street.
Loop, Floyd Addison.....	Pa. ....	1519 Kingman Place.
McLoone, John Joseph.....	Pa. ....	717 H Street.
McMillan, Walter Alexis.....	S. C. ....	1317 F Street, N. W.
Machler, Francis Patrick.....	Ill. ....	1219 Q Street, N. W.
Marriott, William McKim.....	N. Y. ....	3221 Highland Ave.
Morian, Clarence .....	Pa. ....	
Nelson, Nesmith .....	D. C. ....	1737 1st Street.
Neville, James Alan .....	Nebr. ....	2517 14th St., N. W.
Paige, Wendell A. H.....	Vt. ....	1506 Q Street.
Peyton, Harry Alexander.....	D. C. ....	Columbia Hospital.
Piburn, John Logan.....	Mo. ....	S. G. O. War Dept.
Price, Walter .....	D. C. ....	438 N. J. Ave., S. E.
Ross, Erwin Worth.....	N. C. ....	1700 15th Street, N. W.
Rozelle, Keith Kistler.....	N. C. ....	1324 I Street.
Scanlon, Franklin Taylor.....	W. Va. ....	1117 I Street, N. W.
Sorensen, Antone Christian.....	Utah ....	1115 I Street.
Tibbets, Albert Perkins.....	N. H. ....	1018 14th Street.
Titus, Elijah White.....	Va. ....	Children's Hospital.
Waller, Clifford E.....	Ala. ....	Indian Office.
White, Lyle Charles.....	Ohio ....	The Stanhope.
Williams, Robert Cleveland.....	N. C. ....	1005 13th Street.
Young, Clifton E.....	D. C. ....	2509 Wisconsin Ave.

## Fourth Year.

Bales, Ernest Norment.....	Cal. ....	637 E. Capitol Street.
Brooks, James Joseph Lester.....	D. C. ....	465 Florida Ave.
Chappell, Sidney Lovett.....	D. C. ....	3901 Grant Road.

Name.	Legal residence.	City address.
Clark, Albert Patton.....	D. C. ....	1217 Harvard Street.
Collins, James Cleveland.....	D. C. ....	1437 S Street.
Conklin, Rush West.....	Md. ....	Hyattsville, Md.
Craft, Clarence Christian.....	S. C. ....	1116 10th Street, N. W.
Dunn, Abner Beebe.....	Pa. ....	G. Washington Un. Hos.
Fair, Charles Hardy.....	Va. ....	Providence Hospital.
Folkmar, Elenora C.....	Wis. ....	
French, Sanford Williams.....	N. Y. ....	The Majestic Apt.
Gouchenour, David Thomas.....	Va. ....	28 R Street, N. W.
Griffin, Clarence Herbert.....	Mass. ....	1538 17th St., N. W.
Habel, William Parker Herbst....	Pa. ....	1819 Q Street.
Hastings, John Emery.....	N. Y. ....	3034 Cambridge Place.
Hoey, J. Joseph.....	R. I. ....	723 18th Street.
Jobson, William Russell.....	Pa. ....	823 19th Street.
Keneipp, Edgar P.....	Ill. ....	136 D Street, S. E.
Klugh, George Fred.....	S. C. ....	159 Randolph Place.
Lind, John Edward.....	Iowa ....	506 A Street, N. E.
McEnery, Douglas Wiltz.....	La. ....	1366 Kenyon Street.
McKnight, Frederick W.....	Ohio ....	612 22d Street.
McLaughlin, William Frank....	Pa. ....	Emergency Hospital.
Mata, Carlos .....	Cen. Amer.	1208 M Street.
Micheloni, Louis Antony.....	Uruguay ..	P. O. Box 8.
Neail, Howard A.....	N. Y. ....	Casualty Hospital.
Pole, Samuel Boyce, Jr.....	D. C. ....	216 8th Street, N. E.
Powell, Robert Llewellyn.....	Va. ....	934 O Street.
Rhees, Benjamin Rush.....	D. C. ....	Stratford Hotel.
Simonton, Lawrence Joseph.....	Ind. ....	1855 Calvert Street.
Sisco, Henry N.....	D. C. ....	1344 Vermont Ave.
Sullivan, James Francis.....	R. I. ....	614 I Street.
Turnbull, Samuel Jay.....	Fla. ....	1110 New York Ave.
Vasenius, Frederick Walter.....	Finland ..	1210 12th Street.
Watson, John W.....	D. C. ....	201 Nichols Ave.
Watters, Benjamin Courtney....	Md. ....	1013 H Street, N. W.
Weidemann, Clarence Conrad....	D. C. ....	1237 Girard Street.
Weiler, George L.....	Utah ....	504 3d Street.
Weithas, Richard Charles.....	N. Y. ....	1005 13th Street.
White, Gershom Franklin.....	Ohio ....	The Brunswick.
Willis, John Mitchell.....	W. Va. ....	Sibley Hospital.
Wood, William Pleasant .....	Ohio ....	1013 H Street.

## Special.

Selehaddin, Mouhammed .....Turkey ....Takoma Park, D. C.



## Summary.

## CANDIDATES FOR THE M.D. DEGREE:

First year .....	32
Second year .....	40
Third year .....	41
Fourth year .....	42
Special .....	—

— 156

## DEPARTMENT OF DENTISTRY.

## Doctor of Dental Surgery.

## First Year.

Name.	Legal residence.	City address.
Beers, Lloyd Y.....	Pa. ....	1530 3d Street.
Bingman, Harry .....	Pa. ....	617 Morris Street, N. E.
Calvert, Samuel C.....	Iowa ....	1705 13th Street.
Flores, Placido .....	P. I. ....	"The Shoreham."
Gonzalez, Claudio Trejos.....	Costa Rica.	1208 M Street.
Hoffman, Thomas .....	Mass. ....	Interstate Commerce Commission.
McCausland, John McGirk.....	Pa. ....	1506 Caroline Street.
Pagán, José Antonio Marchani...	Porto Rico.	306 E Street, N. E.
Marsh, Bradford Cleveland.....	R. I. ....	1339 Irving Street.
Rubino, Alfredo A.....	S. A. ....	119 Baltimore Ave., N. Takoma Park.
Stone, Eugene Roger.....	Wisc. ....	1810 G Street.
Sibley, George Julian.....	Md. ....	2129½ Pa. Ave.
Sandoval, Domiciano J.....	P. I. ....	726 12th Street.
Schwarzmann, Erwin George.....	Va. ....	209 S. Alfred Street, Alexandria.
Shearer, Norman P.....	Wisc. ....	213-A Bates Street.
Stockman, Frank J.....	Mo. ....	208 Y. M. C. A.
Terflinger, Albert Ernest.....	D. C. ....	Takoma Park, D. C.
Wood, Homer Ernest.....	D. C. ....	650 East Capitol Street.

## Second Year.

Butterfield, Louie W.....	Iowa ....	229 P Street.
Eslin, Melville P.....	D. C. ....	637 Md. Ave., N. E.
Hurwitz, Maurice .....	Mass. ....	1006 H Street.
Robinson, James N.....	W. Va. ....	314 2d Street, N. E.
Sherfy, Raphael .....	Pa. ....	3019 11th Street.

## Third Year.

Name.	Legal residence.	City address.
Angelo, Guy W.....	Va. ....	124 Seaton Place.
Barnhard, William Harry.....	Ohio .....	809 13th Street.
Bear, Ewing Marvin Wood.....	D. C. ....	912 I Street.
Cannon, Claude Q.....	Utah .....	510 I Street.
Davidson, Albert S.....	D. C. ....	321 A Street, S. E.
Goldberg, Max S.....	D. C. ....	627 D Street.
Irby, Charles B.....	Va. ....	G. Washington Un. Hos.

## Summary.

## CANDIDATES FOR THE D.D.S. DEGREE:

First year .....	18
Second year .....	5
Third year .....	7
	— 30

## NATIONAL COLLEGE OF PHARMACY.

## Doctor of Pharmacy.

## Freshmen.

Name.	Legal residence.	City address.
Boyer, W. Day.....	Md. ....	620 H Street, N. W.
Beeson, Loring W.....	Iowa .....	664 Mass. Ave., N. E.
Butler, Homer K.....	Md. ....	924 F Street, N. W.
Colomb, William .....	Vt. ....	York St., Swanton, Vt.
Conrad, Chas. T., Jr.....	D. C. ....	2014 9th Street, N. W.
Dammeyer, C. F. W., Jr.....	Md. ....	11th and E. Capitol St.
Feller, F. M.....	Va. ....	1242 N. J. Ave., N. W.
Gass, C. B.....	Md. ....	1100 14th Street, N. W.
Grubbs, L. R.....	Md. ....	76 I Street, N. W.
Hupperman, C. ....	D. C. ....	338 I Street, S. W.
Hardey, J. Costello.....	Md. ....	301 Pa. Ave., S. E.
Henderson, C. W.....	Va. ....	1415 Ames Place, N. E.
Joachim, A. B.....	D. C. ....	316 4½ Street, S. W.
Jenkins, Lawrence J.....	Va. ....	Agr. Dept., Bu. of Chem.
Morris, Edgar .....	S. C. ....	1827 H Street, N. W.
McCann, Wm. H.....	Mass. ....	607 E Street, N. W.
Marsden, F. A.....	D. C. ....	1731 1st Street, N. W.
Moody, Harold D.....	Pa. ....	923 S. C. Ave., S. W.
Mangum, L. H.....	D. C. ....	3823 14th Street, N. W.
Norton, Wm. H.....	Wash. ....	932 Westminster Street.
Rossiter, J. A.....	D. C. ....	805 7th Street, N. E.



Name.	Legal residence.	City address.
Schommer, J. B., LL.B.....	Wisc. ....	1 R Street, N. E.
Snyder, Carl J.....	D. C. ....	3111 16th Street, N. W.
Whitebread, C. ....	Wisc. ....	741 Girard Street, N. W.
Hohberger, Sam'l J.....	D. C. ....	50 M Street, N. W.

## Juniors.

Boyd, George W.....	D. C. ....	121 2d Street, N. E.
Feller, R. W.....	Va. ....	1242 N. J. Ave., N. W.
Gill, T. L.....	Va. ....	9th and P Sts., N. W.
Hogan, John D. A.....	D. C. ....	19 7th Street, N. E.
Henderson, W. K.....	Va. ....	1371 F Street, N. E.
Harbaugh, L. M.....	D. C. ....	1375 Emerson St., N. E.
Hanback, Clifford I.....	D. C. ....	44 N. Y. Ave., N. E.
Judd, Ralph A.....	D. C. ....	524 7th Street, S. W.
Kenner, A. W.....	Mass. ....	1711 17th Street, N. W.
Lampman, Worden E.....	Canada ....	725 14th Street, N. W.
Morgan, J. Harold.....	D. C. ....	Bethesda, Md.
Peters, D. B.....	Va. ....	Sub-station "L," D. C.
Richardson, Naomi E.....	D. C. ....	3166 18th Street, N. W.
Strobel, Julia H.....	D. C. ....	16 R Street, N. W.
Plunkett, P. E.....	Md. ....	1646 Irving St., N. W.
Tschiffely, Douglas .....	Md. ....	475 Pa. Ave., N. W.
Wilson, Eugene F.....	Del. ....	1718 Corcoran St., N. W.

## Seniors.

Bailey, Ray T.....	D. C. ....	1823 N. H. Ave., N. W.
Crosen, George R.....	Va. ....	10th & Va. Ave., S. W.
Elvove, Elias, B.S. & M.S.....	Pa. ....	Station "G," Box 2304
Hughes, H. D.....	D. C. ....	1329 29th Street, N. W.
Jones, Wm. S.....	Va. ....	2112 G Street, N. W.
Jones, T. Quinn.....	Mo. ....	1225 O Street, N. W.
Nolan, J. I.....	Ill. ....	1164 5th Street, N. E.
Payne, E. V.....	Va. ....	203 D Street, N. E.
Payne, D. B.....	Va. ....	639 Md. Ave., N. E.
Robey, Frank A.....	Va. ....	Herndon, Va.
Reese, Chauncy C.....	Md. ....	15 E. Raleigh Ave., "Ghent," Norfolk, Va.
Richardson, Irene Nellie.....	D. C. ....	3166 18th Street, N. W.
Salb, George R.....	D. C. ....	617 9th Street, N. E.
Senay, Harry J.....	D. C. ....	439 K Street, N. W.
Thibadeau, R. B.....	Ga. ....	300 Monroe Street, Ana- costia, D. C.
Thompson, Milton C.....	D. C. ....	606 G Street, S. E.

Special.		
Name.	Legal residence.	City address.
Dennis, W. Miss., Ph.D.....	Ill. ....	The Marlborough.
Goodnow, Edward H., B.S.....	Mass. ....	2476 Ontario Road.
Hillyer, William Eldridge.....	Fla. ....	1365 Park Road.
B.S., 1899, M.S., 1900, Columbian University.		
Palmon, Julian I., B.S. & M.S....	Md. ....	Bureau of Chemistry.
Taber, Walter C., M.S.....	Calif. ....	1381 N. C. Ave., N. E.

## Summary.

Freshmen .....	25
Juniors .....	17
Seniors .....	16
Special .....	5
— 63	

## COLLEGE OF VETERINARY MEDICINE.

## Doctor of Veterinary Surgery.

Name.	Legal residence.	City address.
Bechtoldt, Frank E.....	Pa. ....	144 Quincy Place, N. E.
Brett, George Wesley.....	Mass. ....	2118 P Street.
Close, Lewis Raymond.....	D. C. ....	325 Mass. Ave., N. E.
Dillard, William Edward.....	Ill. ....	2027 13th Street.
Divine, John Parker.....	D. C. ....	Bu. of Chem., Agr. Dept.
Franz, Louis John.....	Wisc. ....	810 5th Street.
Fry, William H.....	D. C. ....	104 10th Street, S. E.
Graham, Charles Roy.....	Pa. ....	1824 9th Street.
Graham, William Henry.....	Pa. ....	Room 635, P. O. Bldg.
Graves, James Clay.....	Ky. ....	Kenilworth, D. C.
Graybill, Harry Webster.....	Neb. ....	1828 15th Street.
Grubb, Chauncey Merle.....	Md. ....	505 Stanton Place, N. E.
Hicks, Greydon, St. Clair.....	Mich. ....	621½ Park Road.
Hicks, Tunis .....	Mich. ....	621½ Park Road.
Hornbaker, Joseph Nourse.....	Va. ....	1842 V Street.
Hugins, Frank Almon.....	Mass. ....	921 Massachusetts Ave.
Humphrey, Charles Wm.....	Pa. ....	213 4th Street, S. E.
Irby, Robert Garland.....	D. C. ....	1348 Euclid Street.
Koon, George Henry.....	N. Y. ....	1628 G Street, S. E.
Kushner, Albert .....	Md. ....	1204 6th Street.
Leakin, Charles Melvin.....	Md. ....	Washington Navy Yard.
Lowry, William B.....	D. C. ....	603 H Street, N. E.
McCarthy, Henry Joseph.....	Md. ....	304 H Street.



Name.	Legal residence.	City address.
Maher, William Albert .....	Va. ....	220 12th Street, S. E.
Miller, Ezra William.....	Va. ....	1404 Belmont Street.
Moore, Charles S.....	Mich. ....	2523 University Place.
B.S., 1908, The George Washington University.		
Morse, James Watson.....	Md. ....	1305 Rhode Island Ave.
O'Hara, William Henry.....	Wisc. ....	2414 N. Capitol Street.
Pagan, Robert .....	Ill. ....	1965 Biltmore Street.
Plunkert, Charles M.....	D. C. ....	439 O Street.
Riley, Edward Henry.....	Minn. ....	Bu. An. Ind., Agr. Dept.
Royse, Frederick A.....	Iowa ....	914 F Street, N. E.
Shore, Howard J.....	N. C. ....	Bu. An. Ind., Agr. Dept.
Smith, Robt. Hamilton.....	D. C. ....	1735 Willard Street.
White, George Elwood.....	Mass. ....	323 East Capitol Street.

## Summary.

CANDIDATES FOR DEGREE OF D.V.M.....	35
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## GEOGRAPHICAL DISTRIBUTION OF UNIVERSITY STUDENTS.

Alabama .....	6	Rhode Island .....	8
Arizona .....	3	South Carolina .....	13
Arkansas .....	5	South Dakota .....	8
California .....	10	Tennessee .....	13
Colorado .....	7	Texas .....	15
Connecticut .....	7	Utah .....	7
Delaware .....	8	Vermont .....	9
District of Columbia.....	573	Virginia .....	87
Florida .....	8	Washington .....	7
Georgia .....	9	West Virginia .....	9
Idaho .....	7	Wisconsin .....	28
Illinois .....	48	Wyoming .....	2
Indiana .....	21	Argentine Republic .....	1
Iowa .....	21	Australia .....	1
Kansas .....	10	Canada .....	3
Kentucky .....	17	Central America .....	1
Louisiana .....	5	China .....	5
Maine .....	7	Costa Rica .....	1
Maryland .....	89	Cuba .....	1
Massachusetts .....	55	England .....	3
Michigan .....	26	Finland .....	1
Minnesota .....	17	France .....	2
Mississippi .....	11	Germany .....	4
Missouri .....	18	Greece .....	1
Montana .....	2	Italy .....	3
Nebraska .....	14	Mexico .....	1
New Hampshire .....	6	Nova Scotia .....	1
New Jersey .....	18	Peru .....	1
New Mexico .....	1	Philippine Islands .....	9
New York .....	73	Porto Rico .....	4
North Carolina .....	21	Russia .....	4
North Dakota .....	5	South Africa .....	3
Ohio .....	38	Switzerland .....	1
Oklahoma .....	8	Turkey .....	1
Oregon .....	6	Uruguay .....	4
Pennsylvania .....	78		

1,520



## RECAPITULATION.

## MEMBERS OF FACULTIES AND TEACHING STAFF:

Professors .....	83
Associate Professors .....	7
Assistant Professors .....	22
Associates, Instructors, Demonstrators and Assistants....	61
Lecturers .....	12
Total .....	185

## STUDENTS:

Graduate .....	114
Undergraduate .....	692
College of the Political Sciences.....	89
Professional .....	625
Duplicates .....	12
Total .....	1508

## DEPARTMENT OF ARTS AND SCIENCES:

	Faculty.	Students.
Faculty of Graduate Studies.....	45	114
Undergraduate Colleges and Divisions including the College of the Political Sciences.....	49	781
	94	895

## PROFESSIONAL DEPARTMENTS:

Department of Law.....	18	341
Department of Medicine.....	68	156
Department of Dentistry.....	14	30
National College of Pharmacy.....	10	63
College of Veterinary Medicine.....	15	35
Totals .....	125	625
Duplicates .....	34	12
Totals .....	185	1508

## Degrees Conferred.

### DEGREES CONFERRED AT COMMENCEMENT, 1908.

#### HONORARY.

##### Doctor of Laws.

Willis Seaver Paine, New York.

Frederick James Volney Skiff, Illinois.

#### IN COURSE.

##### Bachelor of Arts.

Frank Coy Allis, New York.

LL.B., 1903, Cornell University.

LL.M., 1906, The George Washington University.

Grace Evelyn Barbour, Missouri.

Bertha Birtwell, Pennsylvania.

(With distinction.)

Lula Elizabeth Conner, District of Columbia.

Roi De Lancy, Ohio.

John Howard Dellinger, Ohio.

Helen Marie Evans, District of Columbia.

(With distinction.)

Selden Marvin Ely, District of Columbia.

LL.B., 1894. LL.M., 1895, The George Washington University.

Ruth Genevieve Field, Wisconsin.

Edward Percy Gates, Arkansas.

Charles Augustus Heiss, Pennsylvania.

Howard Colwell Hopson, Wisconsin.

Catharine Agatha McAvoy, District of Columbia.

(With distinction.)

Jane Mahan, West Virginia.

Pearl Ketcham Merritt, Minnesota.

Jennie Moyer, District of Columbia.

Katherine May Raber, Ohio.

Claus Johann Schwartz, District of Columbia.

Justin Frank Seiler, Ohio.

Ogle Ridout Singleton, District of Columbia.

Jessamine Eliza Swartwout, District of Columbia.

William Cabell Van Vleck, District of Columbia.

(With distinction.)



**Bachelor of Science.**

Mary Page Crawford, Virginia.  
Alvin Wilson Miller, Illinois.  
Charles Somerville Moore, Michigan.  
Charles Calvin Smoot, Virginia.  
John Adlum Sterrett, District of Columbia.  
Harold English Stonebraker, Pennsylvania.  
Emma Matthews Vaughan Triepel, North Carolina.

**Bachelor of Science in Chemistry.**

Edward Oliver Reed, District of Columbia.

**Bachelor of Science in Civil Engineering.**

Raymond Tilton Davis, Maryland.  
Thomas Richard Senior, Jr., District of Columbia.  
William James Turkenton, District of Columbia.

**Bachelor of Science in Electrical Engineering.**

Robert Fleming Fleming, District of Columbia.  
Hayner Haskell Gordon, Ohio.

**Bachelor of Science in Mechanical Engineering.**

Eugene Maurice Ball, District of Columbia.  
Harry Clement Gibson, Pennsylvania.  
Elton Willard Miller, California.

**Civil Engineer.**

Edwin Hauptman King, District of Columbia.  
B.S. in C.E., 1907, The George Washington University.  
David Albert Molitor, Wisconsin.  
B.S. in C.E., 1908, The George Washington University.

**Electrical Engineer.**

Mark Rittenhouse Woodward, District of Columbia.  
B.S. in E.E., 1905, The George Washington University.

**Master of Science.**

Katherine Harrington, District of Columbia.  
B.S., 1906, The George Washington University.

**Master of Arts.**

Horace Hatch Custis, District of Columbia.  
B.A., 1906, Johns Hopkins University.

John Homer Deis, District of Columbia.

LL.B., 1902, The George Washington University.

Thomas Latimer Kibler, Virginia.

A.B., 1904, Randolph-Macon College.

John Elliot Ross, District of Columbia.

A.B., 1902, Loyola College.

Charles Wesley Tenney, Montana.

Ph.B., 1898, Willamette University.

#### Doctor of Philosophy.

Frank Cummings Cook, Connecticut.

B.A., 1900, M.A., 1902, M.S., 1904, Yale University.

Benjamin George Wilkinson, District of Columbia.

B.A., 1897, University of Michigan.

M.A., 1905, Union College.

#### Doctor of Medicine.

Frederick Scott Avery, Michigan.

Clarence Sanborn Bossert, Wisconsin.

John Edson Bowers, Indiana.

Frank J. Brown, Iowa.

Andrew Johnson Browning, Maryland.

William Alvin Bryan, Iowa.

Benjamin Franklin Cliff, North Carolina.

Roy Franklin Dunmire, Pennsylvania.

Ernest Day Everett, Missouri.

A.B., 1899, Baker University.

Algernon Sydney Garnett, Virginia.

George Matthew Gehringer, Pennsylvania.

Thomas Everett Griffith, Pennsylvania.

George H. Hart, Pennsylvania.

V.M.D., 1903, University of Pennsylvania.

Arthur William Hewitt, Ohio.

Daniel Witter Higgins, Maryland.

John Wilson Hopkins, Minnesota.

Edmund Joseph Horgan, District of Columbia.

William Marion Irbysmith, Kentucky.

A.B., 1901, A.M., 1901, Georgetown College, Kentucky.

Charles Solomon Lawrence, North Carolina.

John Ramsey Littlefield, District of Columbia.

Robert Stanley MacKnight, Michigan.

Maurice Hopkins Maxwell, Maryland.

Herman Emil Molzahn, Minnesota.

John Sweyn Neate, District of Columbia.



Edward Rogers Noyes, District of Columbia.  
Harry Alfred Ong, Ohio.  
Orra Edgar Patterson, Illinois.  
Herbert Samuel Pyne, Utah.  
Ralph Andre Quick, Virginia.  
Riley Russell, Illinois.  
William Bertram Scott, Oregon.  
B.Lit., 1896, B.S., 1906, Willamette University.  
John Wesley Sherwood, Maryland.  
Harry Emmerich Simons, District of Columbia.  
Ernest Wellington Smith, West Virginia.  
Harry Marbury Tayloe, Virginia.  
Edward Taylor, Alabama.  
B.S., in Phar., 1903, Alabama Polytechnic Institute.  
William Davis Tewksbury, Colorado.  
Lewis Royer Thompson, Pennsylvania.  
A.B., 1900, Ursinus College.  
Frederick Clarence Weber, Ohio.  
B.S., Ohio State University.  
Frederick Gordon Whamond, Illinois.  
Charles Wheatley, Maryland.  
Arthur Joseph Wheeler, Illinois.  
Joseph Victor Wilhelm, Illinois.  
James Thruston Wolfe, Virginia.  
Rowland Daniel Wolfe, Maryland.

**Doctor of Dental Surgery.**

William Richard Addison, Wisconsin.  
James Walter Bernhard, Pennsylvania.  
Alan Smith Boarman, Maryland.  
Emlyn James Britton, Pennsylvania.  
Robert Henry Clark, Indiana.  
Alfred William Cummings, Kansas.  
Thomas Leon Fairfield, District of Columbia.  
Arthur Wellesley Gash, Rhode Island.  
John Alexander Grubbs, Virginia.  
Casper Florian Helmig, Missouri.  
Charles Millington Higgins, West Virginia.  
Walter Henry Hildreth, New York.  
A.B., 1892, A.M., 1904, Amherst College.  
Herbert Cornwell Hopkins, District of Columbia.  
William Clarence Houghtelin, Kansas.  
Harry Dow Johnson, Missouri.  
Herbert Spencer Murdock, Missouri.

George Francis Peck, New Jersey.  
George Smitten, District of Columbia.  
Henry Cissel Young, Maryland.

**Doctor of Pharmacy.**

W. Roby Boyer, Maryland.  
Carroll G. Deming, District of Columbia.  
Henry B. Floyd, Texas.  
Morris A. Pozen, Russia.  
Robert Bruce Spencer, North Carolina.  
Ernest H. Steele, Virginia.  
William D. Thorn, District of Columbia.  
T. O. Timberlake, Virginia.

**Bachelor of Laws.**

Posey John Altizer, Virginia.  
Charles Rogers Arundell, District of Columbia.  
Howard Johnson Atwell, Virginia.  
John Christopher Wagner Beall, District of Columbia.  
Colley Wood Bell, District of Columbia.  
Bertram Philip Berger, New York.  
Frank Marshall Betts, Arkansas.  
John Henry Binsted, District of Columbia.  
Harry Luther Boesch, District of Columbia.  
Frank Hunter Bowen, Massachusetts.  
Maxwell Rice Brothers, Utah.

(As of 1901.)

Paul Campbell, Tennessee.  
Ira J. Carr, Michigan.  
Edmund Carrington, District of Columbia.  
Andrew Christensen, Utah.  
Fayette Dickinson Couden, Massachusetts.  
B.S., 1904, Massachusetts Agricultural College.  
Harold Bert Cutler, Iowa.  
Arthur William Davidson, Ohio.  
A.B., 1899, Western Reserve University.  
Harry Blaine Durham, Nebraska.  
Ph.B., 1904, Nebraska Wesleyan University.  
Walter Bohrer Guy, District of Columbia.  
Ph.B., 1905, Lafayette College.  
Clinton Henry Hartson, Washington.  
Moses Walton Hendry, Maryland.  
A.B., 1903, Johns Hopkins University.  
Samuel Joseph Henry, District of Columbia.



- Louis Frederick Hepburn, Pennsylvania.  
Philip Simmons Hichborn, District of Columbia.  
Albert Clare Hindman, Pennsylvania.  
Howard Raymond Hinshaw, Nebraska.  
Rexford Louie Holmes, Missouri.  
Allen Harrison Hughey, Texas.  
B.A., 1903, Vanderbilt University.  
Eustacio S. Ilustre, Philippine Islands.  
George Bayard Jones, Missouri.  
B.S., 1905, Massachusetts Institute of Technology.  
Robert McGuire Jones, Virginia.  
B.A., 1902, William and Mary College.  
Michael Levin, Wisconsin.  
Henry Latané Lewis, Maryland.  
George Browning McClellan, Hawaii.  
Ira Bennett McNeal, Pennsylvania.  
A.B., 1898, Dickinson College.  
Henry Howard Mancha, Michigan.  
Allan Pomeroy Matthew, California.  
A.B., 1903, University of California.  
Lucius Randolph Mason, Maryland.  
William Lewis Miller, District of Columbia.  
Paul Mitchell, Pennsylvania.  
A.B., Allegheny College.  
Curt Berthold Mueller, Ohio.  
A.B., 1906, Cornell University.  
William Ashford Murphy, Washington.  
Claud Worthington Owen, Maryland.  
Charles Francis Owens, Maryland.  
James Frosst Patterson, District of Columbia.  
Walter Watts Patterson, Georgia.  
A.B., University of Georgia.  
LL.B., Grant University.  
Adon Daniel Phillips, New York.  
B.S., 1906, The George Washington University.  
Ivon William Phillips, New York.  
Leon Pretzfelder, Virginia.  
George William Ramsey, Illinois.  
Don Seavey Rathbun, Iowa.  
B.S., 1904, Cornell College.  
Paul Allen Rehr, Pennsylvania.  
Reginald Rutherford, Maryland.  
George Bismarck Sanderlin, North Carolina.  
A.B., 1899, A.M., 1900, Wake Forest College.

- James MacDermott Sheridan, Colorado.  
 Ellison Griffith Smith, South Dakota.  
 Simon Bernard Stein, Massachusetts.  
 Howard William Stull, Pennsylvania.  
 Charles Algernon Sunderlin, Nebraska.  
     A.B., 1907, Nebraska University.  
 Louis Kossuth Sunderlin, Iowa.  
 Samuel Swayze, New Jersey.  
 Louis Ralph Taylor, Illinois.  
 Robert Hite Turner, Virginia.  
 Frank Hubbard Twyeffort, New York.  
 William Kemper West, Kentucky.  
 Robert Chadwick Willis, North Carolina.  
     A.B., Guilford College.  
 Ira Jay Wilson, Wisconsin.  
 Lester Hood Woolsey, New York.  
     A.B., 1901, Harvard University.

#### Master of Patent Law.

- Samuel Nicholas Acker, District of Columbia.  
     LL.B., 1906, National University.  
 Joseph McCarter Bowyer, Pennsylvania.  
     LL.B., 1907, The George Washington University.  
 Theodore Keller Bryant, New York.  
     LL.B., 1897, LL.M., 1898, Cornell University.  
 Moncure Burke, District of Columbia.  
     LL.B., 1904, National University.  
 Louis Edward Giles, Michigan.  
     B.S. in E.E., 1902, LL.B., 1907, The George Washington University.  
 William Samuel Graham, District of Columbia.  
     LL.M., 1907, National University.  
 Charles Stanton Grindle, Ohio.  
     LL.B., 1907, National University.  
 Paul Rankin Hallam, Kentucky.  
     LL.B., 1908, The George Washington University.  
 William Barron Kerkam, District of Columbia.  
     LL.B., 1906, LL.M., 1907, National University.  
 Albert Lewers, Nevada.  
     LL.B., 1907, National University.  
 Robert Magrane, New York.  
     A.B., 1903, A.M., 1904, Harvard University.  
 Thomas L. Mead, Jr., Ohio.  
     Ph.B., 1901, Western Reserve University.  
     LL.B., 1907, The George Washington University.



Curt Berthold Mueller, Ohio.

A.B., 1906, Cornell University.

Edwin Augustus Packard, Massachusetts.

B.S., 1899, Massachusetts Institute of Technology.

LL.B., 1908, The George Washington University.

George Francis Scull, New York.

LL.B., 1907, National University.

Lester Abbot Stanley, District of Columbia.

LL.B., 1907, National University.

William Leonard Symons, Ohio.

LL.B., 1895, LL.M., 1896, Columbian University.

Samuel Mortimer Ward, Jr., District of Columbia.

LL.B., 1906, National University.

Henry Trumbull Williams, Massachusetts.

S.B., 1903, Harvard University.

LL.B., 1907, The George Washington University.

Dann Leonard Wood, District of Columbia.

LL.B., 1907, National University.

Franklin Tuthill Woodward, District of Columbia.

A.B., 1901, Dickinson College.

LL.B., 1907, The George Washington University.

#### Master of Laws.

John Frederick Barth, Kentucky.

LL.B., 1907, The George Washington University.

Eugene Foster Brigham, Georgia.

LL.B., 1907, University of Virginia.

Ralph Marshall Hattersley, Ohio.

LL.B., 1907, The George Washington University.

Ora Herbert Roberts, Indiana.

LL.B., 1907, The George Washington University.

Corry Montague Stadden, Ohio.

LL.B., 1907, The George Washington University.

Edward Smith Stewart, Maryland.

LL.B., 1907, The George Washington University.

Omar Jay Veley, District of Columbia.

LL.B., 1907, The George Washington University.

#### DEGREES CONFERRED AT FALL CONVOCATION, 1908.

##### IN COURSE.

##### Civil Engineer.

Thomas Richard Senior, Jr., District of Columbia.

B.S. in Civil Engineering, 1908, The George Washington University.

**Master of Arts.**

Oscar Lee Owens, Maryland.

B.D., 1905, Rochester Theological Seminary.

**Doctor of Medicine.**

Ezra McKnight Davis, South Carolina.

William Joshua Groot Thomas, District of Columbia.

**Bachelor of Laws.**

Charles Louis Allen, South Dakota.

Archibald Tanner Banning, Jr., New York.

A.B., 1904, Cornell University.

John Hermann Bruninga, Illinois.

F. Russell Fravel, Virginia.

Arthur Wyman Glennan, District of Columbia.

Dyer Smith, New Jersey.

M.E., 1903, Lehigh University.

Titus Ulke, District of Columbia.

E.M., 1889, Royal Academy of Mines, Freiberg, Saxony.

**DEGREES CONFERRED AT WINTER CONVOCATION, 1909.****HONORARY.****Doctor of Laws.**

Alfred Harding, District of Columbia.

Charles Evans Hughes, New York.

Theodore Roosevelt, New York.

**IN COURSE.****Bachelor of Arts.**

Ulysses Grant Baker Pierce, District of Columbia.

James Owens Wrightson, District of Columbia.

**Bachelor of Science.**

Titus Ulke, District of Columbia.

E.M., 1889, Royal Academy of Mines, Freiberg, Saxony.

L.L.B., 1908, The George Washington University.

**Bachelor of Science in Electrical Engineering.**

Harlan Verne Honn, District of Columbia.

**Electrical Engineer.**

Frank Bailey Steele, West Virginia.

Graduate from Virginia Military Institute.



**Master of Science.**

Frances Sanders, District of Columbia.

B.S., 1901, Columbian University.

**Master of Arts.**

Edward Damon Baldwin, Oregon.

B.L., 1906, Whitman College.

**Doctor of Philosophy.**

William Clifton Phalen, Massachusetts.

S.B., 1899, S.M., 1900, Massachusetts Institute of Technology.

**Bachelor of Laws.**

John Edward Biscoe, District of Columbia.

Graduate from Virginia Military Institute, 1904.

Bruce Randall Kester, Pennsylvania.

Harry Earl Leach, California.

**Master of Patent Law.**

Carl A. Richmond, Illinois.

**Master of Laws.**

Ralph Marshall Hattersley, Ohio.

LL.B., 1907, The George Washington University.

**DEGREES CONFERRED AT COMMENCEMENT, 1909.****HONORARY.****Doctor of Laws.**

Rear-Admiral Charles H. Stockton, U.S.N.

**Doctor of Divinity.**

Ulysses Grant Baker Pierce, District of Columbia.

**IN COURSE.****Doctor of Philosophy.**

Harry Wilson Houghton, Maryland.

B.S. in Chemistry, 1906, M.S., 1907, The George Washington University.

George Whitfield Stiles, Jr., Oklahoma.

B.S., 1900, Oklahoma Agricultural and Mechanical College.

M.D., 1905, The George Washington University.

Luther Hess Waring, Pennsylvania.

B.A., 1905, The George Washington University.

M.A., 1904, Columbian University.

**Master of Arts.**

- Frank Coy Allis, New York.  
 LL.B., 1903, Cornell University.  
 LL.M., 1906, A.B., 1908, The George Washington University.
- George Morton Churchill, Massachusetts.  
 A.B., 1896, Boston University.
- Selden Marvin Ely, District of Columbia.  
 LL.B., 1894, LL.M., 1895, B.A., 1908, The George Washington University.
- Marian Adams Gudmundsen, Idaho.  
 A.B., 1903, University of Utah.
- Stephen Elliott Kramer, District of Columbia.  
 B.S., 1906, The George Washington University.
- Albert Nin-Frias, Uruguay.  
 B.A.S., 1907, Montevideo University.
- Hans Fr. Arthur Schoenfeld, District of Columbia.  
 B.A., 1907, The George Washington University.
- William Spring Stevens, Maine.  
 A.B., 1906, Colby College.
- Daniel Michael Walsh, Vermont.  
 B.S., 1904, University of Vermont.
- James Owens Wrightson, District of Columbia.  
 A.B., 1909, The George Washington University.
- Julia Elektra Ludlow Young, New York.  
 B.A., 1906, Barnard College, Columbia University.

**Master of Science.**

- Everett William Boughton, New York (in absentia).  
 B.S. in Chemistry, 1903, Polytechnic Institute of Brooklyn.
- Alton Lewin Kibler, Virginia.  
 A.B., 1904, Randolph-Macon College.
- Otis Dow Swett, Maryland.  
 LL.B., 1891, LL.M., 1892, Columbian University.  
 B.S., 1904, The George Washington University.

**Electrical Engineer.**

- Hayner Haskell Gordon, Ohio.  
 B.S. in C.E., 1908, The George Washington University.

**Bachelor of Arts.**

- Vera Elsie Adams, District of Columbia.  
 (With distinction.)
- Charles Raymond Atkinson, Wyoming.
- James William Berry, District of Columbia.
- Charles Harvey Bowker, District of Columbia.  
 M.D., Hahnemann Medical College.  
 National University Medical School.



Lilian Claire Cash, District of Columbia.  
Christine Merrick Church, District of Columbia.  
Ruth Gilbert Cochran, Colorado.  
May Thacher Cooke, Colorado.  
Marion Edith Craig, Pennsylvania.

(With distinction.)

William Joseph Francis Curran, Virginia.  
Howard G. England, District of Columbia.  
Maryland Divinity School.

Anne Lee Ettenger, Indiana.  
Frank Orear Everett, Missouri.  
Charlotte Raynsford Farrington, Minnesota.  
Mildred Floyd Johnston, District of Columbia.  
Lillie V. Keathley, North Carolina.  
James Luther Martin, Maryland.

1904, Theological Seminary in Virginia.

Tench Tilghman Marye, District of Columbia.  
Yale O. Millington, District of Columbia.  
Roy Lyman Joseph Newhouser, Pennsylvania.  
Edgar Cordell Powers, District of Columbia.  
Henry N. Sisco, District of Columbia.

#### **Bachelor of Arts and Teacher's Diploma.**

Alice Sinclair Botkin, District of Columbia.  
May Paul Bradshaw, District of Columbia.  
Victoria Briggs, New York.  
Edith Lee Compton, District of Columbia.  
Henry White Draper, District of Columbia.  
LL.B., 1903, LL.M., 1904, National University.  
Margaret Newton, District of Columbia.

#### **Teacher's Diploma.**

Ruth Fowler.  
B.A., 1908, University of Indiana.

#### **Bachelor of Science.**

Nellie Ecker Besselievre, District of Columbia.  
Mary Cecilia Breen, District of Columbia.  
Joseph Ryland Curl, District of Columbia.  
Franz Frederick W. Dahn, Minnesota.  
Laura Shackelford, District of Columbia.  
Sidney Forsythe Sherwood, Virginia.

**Bachelor of Science in Civil Engineering.**

Raymond Edmond Adams, Pennsylvania.

Max W. Winter, Nebraska.

**Bachelor of Science in Electrical Engineering.**

Ara Marcus Daniels, District of Columbia.

George Winship Easterday, District of Columbia.

William Frederick Nickel, Maryland.

Harold Brooke Stabler, Maryland.

Philip H. Ward, Jr., District of Columbia.

**Bachelor of Science in Mechanical Engineering.**

Kemp Gerard Acker, District of Columbia.

**Doctor of Medicine.**

James Joseph Lester Brooks, Pennsylvania.

Sidney Lovett Chappell, District of Columbia.

Albert Patton Clark, District of Columbia.

Phar.D., 1905, National College of Pharmacy.

James Cleveland Collins, Virginia.

Rush West Conklin, Kansas.

Clarence Christian Craft, South Carolina.

B.S., 1902, South Carolina Military Academy.

Charles Hardy Fair, Virginia.

Sanford Williams French, New York.

David Thomas Gochenour, Virginia.

B.S., 1900, Bridgewater College.

Clarence Herbert Griffin, Massachusetts.

B.S., 1904, Massachusetts Agricultural College.

William Parker Herbst Habel, Pennsylvania.

Phar.D., 1905, National College of Pharmacy.

John Emery Hastings, New York.

John Joseph Hoey, Rhode Island.

William Russell Jobson, Pennsylvania.

Edgar Percy Keneipp, Illinois.

George Fred Klugh, South Carolina.

B.S., 1901, Clemson Agricultural College.

John Edward Lind, District of Columbia.

Douglas Wiltz McEnery, Louisiana.

B.A., 1903, Tulane University.

Frederick W. McKnight, Ohio.

William Frank McLaughlin, Pennsylvania.

Howard William Neail, New York.

Samuel Boyce Pole, Jr., District of Columbia.



Robert Llewellyn Powell, Virginia.  
 Benjamin Rush Rhees, District of Columbia.  
 Laurence Joseph Simonton, Indiana.  
 Henry Nathaniel Sisco, District of Columbia.  
     A.B., 1898, Battle Creek College.  
 Samuel Jay Turnbull, Florida.  
 Frederick Walter Vasenius, Finland.  
 George Leo Weiler, Utah.  
 Richard Charles Weithas, New York.  
 Gershon Franklin White, Ohio.  
     B.S., 1907, Ohio University.  
     Ph.D., 1905, Cornell University.  
 John Mitchell Willis, West Virginia.  
 William Pleasant Wood, Ohio.

#### Doctor of Dental Surgery.

Guy Wilson Angelo, Virginia.  
 William Harry Barnhard, Ohio.  
 Ewing Marvin Wood Bear, District of Columbia.  
 Claude Quayle Cannon, Utah.  
 Albert Sidney Davidson, District of Columbia.  
 Max S. Goldberg, District of Columbia.  
 Charles Rufus Irby, Virginia.

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 T. Quinn Jones, Missouri.  
 E. V. Payne, Virginia.  
 Chauncey C. Reese, Maryland.  
 Irene Nellie Richardson, District of Columbia.

#### Master of Laws.

Raphael Henry Blakesley, California.  
     LL.B., 1908, University of Southern California.  
 George Amory Maddox, Maryland.  
     A.B., 1896, A.M., 1899, St. John's College.  
     LL.B., 1899, University of Maryland.  
 José Abad Santos y Basco, Philippine Islands.  
     LL.B., 1908, Northwestern University.

#### Master of Patent Law.

Arthur William Davidson, Ohio.  
     B.A., 1899, Western Reserve University.  
     LL.B., 1908, The George Washington University.

- John Alexander Ferguson, Michigan.  
LL.B., 1908, National University.
- Nelson A. Hallauer, New York.  
LL.B., 1908, National University.
- William Abbott Hardy, Massachusetts.  
LL.B., 1908, National University.
- Joseph William Harris, Pennsylvania.  
LL.B., 1908, National University.
- Walter Frisby Hendricks, Tennessee.  
LL.B., 1907, LL.M., 1908, National University.
- Charles Popham Hidden, New York.  
M.E., 1897, Stevens Institute of Technology.  
LL.B., 1908, National University.
- Charles Gwinn Jarboe, Maryland.  
A.B., 1896, A.M., 1901, St. John's College.  
LL.B., 1908, National University.
- Nelson Josiah Jewett, Michigan.  
LL.B., 1908, Georgetown University.
- George Bayard Jones, District of Columbia.  
B.S., 1905, Massachusetts Institute of Technology.  
LL.B., 1908, The George Washington University.
- Hugh Keneipp, Illinois.  
LL.B., 1901, University of Michigan.
- Clarence Orson McKay, Michigan.  
LL.B., 1908, National University.
- Forrest Burleigh MacNab, Massachusetts.  
LL.M., 1907, National University.
- John Molloy, Maryland.  
LL.B., 1906, LL.M., 1907, Georgetown University.
- Lawrence Sands Paddock, New Jersey.  
LL.B., 1908, National University.
- Willard Lacy Pollard, Illinois.  
LL.B., 1909, National University.
- John Goodwin Powell, Virginia.  
LL.B., 1908, National University.
- Clifford Alonzo Rowley, District of Columbia.  
LL.B., 1909, National University.
- William David Shoemaker, Maryland.  
LL.B., 1909, Washington College of Law.
- Warren Harvey Small, Massachusetts.  
A.B., 1905, Harvard University.
- John Preston Tarbox, South Carolina.  
B.A., 1904, Clemson College.  
LL.B., 1908, National University.



Titus Ulke, District of Columbia.

E.M., 1899, Royal Academy of Mines, Freiberg, Saxony.

LL.B., 1908, B.S., 1909, The George Washington University.

Charles Franklin Willard, Massachusetts.

B.S., 1901, Massachusetts Institute of Technology.

J.B., 1906, J.M., 1907, Boston University.

Ira Jay Wilson, Wisconsin.

LL.B., 1908, The George Washington University.

#### Bachelor of Laws.

Thomas Berton Adams, Florida.

B.A., 1902, University of Nashville.

George Lewis Ambrose, Montana.

Burton Hack Barndollar, Pennsylvania.

Octave Adelbert Bigoness, District of Columbia.

John Levi Cable, Ohio.

L.B., 1906, Kenyon College.

Chester Morrow Clark, District of Columbia.

A.B., 1907, Harvard University.

Harry Seymour Cragin, District of Columbia.

(With distinction.)

Robert Duff Dalzell, Pennsylvania.

A.B., 1905, Yale University.

Roi De Lancy, Ohio.

B.A., 1908, The George Washington University.

Frank Eugene Edgerton, Nebraska.

A.B., 1900, University of Nebraska.

George Irving Haselton, New Hampshire.

Errol Osman Horner, New Jersey.

Wells Aleck Hutchins, District of Columbia.

(With distinction.)

Warren Maxwell Jenkins, Pennsylvania.

(With distinction.)

A.B., 1906, Grove City College.

John Jensen, Utah.

(With distinction.)

B.A., 1906, University of Utah.

George Hickman Koons, Indiana.

Robert Lee Lawburgh, Indiana.

A.M., 1905, De Pauw University.

Albert Lafayette Lohm, West Virginia.

Richard Dunnica Micou, Virginia.

B.A., 1903, M.A., 1903, University of Virginia.

Walter Karl Miller, Kansas.

Jesse Ray Nyemaster, Iowa.

Philip De Witt Phair, Maine.

M.A., 1906, Harvard University.

Sidney Roche, District of Columbia.

Paul Allison Stuart, Pennsylvania.

A.M., 1906, Washington and Jefferson College.

Harold J. Wagner, New York.

Roscoe Everett Whiting, Washington.

(With distinction.)

A.B., 1901, Bowdoin College.

**Bachelor of Law.**

Thomas Mador Gilmore, Jr., Kentucky.

John Albert Homer, Utah.

Lewis Meriam, Massachusetts.

A.B., 1905, A.M., 1906, Harvard University.

Harry Hamlin Pearce, Michigan.

A.B., 1905, Albion College.

Harold Augustus Swenarton, New Jersey.

Ph.B., 1905, Yale University.



## Doctors of Philosophy.

During the years 1894 to 1907, inclusive, the University has conferred the degree of Doctor of Philosophy, after examination and the presentation and public defense of a thesis, upon the following persons:

1894.

- \*Edward Farquhar, (Greek)  
 Thesis: Elements of Unity in the Homeric Poems. (Conservative Review, vol. iii, June-September, 1900.)
- Walter Scott Harshman, (Theoretical Astronomy)  
 M.S., 1892, Columbian University.  
 Thesis: Investigation of the Motion of the Pericentre of Deimos. (Astronomical Journal, Boston, vol. xiv, pp. 145-148, 1894.)
- Professor Frank Hall Knowlton, (Botany)  
 B.S., 1884, M.S., 1887, Middlebury.  
 Thesis: The Flora of the Laramie Group and Allied Formations. (Not published.)
- Claude Augustus Oscar Rosell, (Chemistry)  
 M.A., 1881, University of Pennsylvania; LL.B., 1886, Georgetown University.  
 Thesis: Investigation of the Properties of Ferric Acid. (J. Am. Chem. Soc., vol. xvii, pp. 760-769, 1895.)

1895.

- George Wesley Hamner, (History)  
 B.A., 1882, M.A., Hiawassee College; LL.B., 1885, University of Alabama; LL.M., 1886, Georgetown University.  
 Thesis: Researches upon the Government of the Creek Indians. (Not published.)

1896.

- Edward Clarke Hudson, (Greek)  
 B.A., 1884, M.A., 1894, Hiawassee College; M.A., 1894, Columbian University.  
 Thesis: Investigation into the Use of the Genitive Case in Greek. (Not published.)
- Rev. James Stephen Lemon, (Psycho-physics)  
 B.A., 1864, M.A., 1867, Wesleyan University, Middletown, Conn.  
 Thesis: The Skin Considered as an Organ of Sensation. (Published separately, 1898, 70 pp.)

1897.

- Professor Charles Arthur Hollick, (Palæobotany)  
 Ph.D., 1879, Columbia College.  
 Thesis: Palæobotany of the Yellow Gravel at Bridgeton, N. J. (Not published.)

\* Deceased.

John Scott Johnson, (Philosophy)  
 B.S., 1893, M.A., 1894, Columbian University.  
 Thesis: The Influence of French Thought on the Formation of the Constitution of the United States. (Not published.)

Timothy William Stanton, (Palæontology)  
 B.S., 1883, M.S., 1895, University of Colorado.  
 Thesis: A Comparative Study of the Lower Cretaceous Formation and Faunas of the United States. (Jour. of Geology, pp. 1-49, September-October, 1897.)

1898.

\*Cabell Whitehead, (Chemistry)  
 B.M., 1885, Lehigh University; M.S., 1895, Columbian University.  
 Thesis: A Study of the Tellurides; Their Formation and Chemical Properties. (G. W. U. Bull., 5 [4], 65-68, 1906.)

1900.

Eugene A. Byrnes, (Physical Chemistry)  
 B.A., 1884, Michigan University; LL.B., 1887, LL.M., 1888, Columbian University.  
 Thesis: Experiments on the Direct Conversion of the Energy of Carbon into Electrical Energy. (1, "Voltaic Cells with Fused Electrolytes"; 2, "Notes on Metallic Diaphragms." Trans. Amer. Electrochemical Society. Vol. 2, pp. 113-121. Vol. 4, p. 135.)

Rev. Benjamin Alfred Dumm, (Philosophy)  
 B.A., 1886, M.A., 1889, Western Maryland College.  
 Thesis: The Concept of Self in the Analysis of Experience. (Not published.)

Professor Charles Russell Ely, (Chemistry)  
 A.B., 1891, A.M., 1897, Yale College.  
 Thesis: Investigation of the Phenomenon of Deliquescence and the Capacity of Salts to Attract Water Vapor. (G. W. U. Bull., 5 [4], 69-74, 1906.)

Ernestine Fireman, (Chemistry)  
 M.S., 1898, Columbian University.  
 Thesis: The Action of Phosphonium Iodide on Tetra and Penta Chlorides. (Am. Chem. Jour., 30, 116-133, 1903.)

Charles Moore, (American History)  
 A.B., Harvard; M.A., 1898, Columbian University.  
 Thesis: The Northwest under Three Flags. (Published separately by Harper & Bros., New York, 1900, 402 pp.)

1901.

William Hamilton, (American History)  
 B.A., 1891, Moravian College, Pennsylvania; M.A., 1894, Columbian University.

Thesis: The Expansion of Russia to the Eastward. (Not published.) (Economics)

Chohei Shirasu,  
 Graduate, 1893, Doshisha University, Japan; A.M., 1899, Yale University.  
 Thesis: The Development of Commerce in Japan and its Effect on Civilization. (Summary of Commerce and Finance for December, 1901, Bureau of Statistics, U. S. Treasury Department, pages 2227-2315.)

\* Deceased.



## 1902.

- Rev. Frank Leighton Day, (Anthropology)  
 B.A., 1891, M.A., 1896, Roanoke College; B.D., 1895, Vanderbilt University.  
 Thesis: Did the Semites Pass through a Totem Stage? (Not published.)
- Nevil Monroe Hopkins, (Chemistry)  
 B.S., 1899, M.S., 1900, Columbian University.  
 Thesis: Some Experiments on Electrolytic Conductivity with Reference to the Ionic Theory. (G. W. U. Bull., 3 [3], 91-94, 1904.) (Published separately as "Experimental Electrochemistry," by D. Van Nostrand Company, New York, 1905, 284 pp., 231 ill.)

## 1903.

- Edwin Allston Hill, (Chemistry)  
 A.B., 1875, A.M., 1902, Yale University; M.S., 1901, Columbian University.  
 Thesis: The Constitution of Certain Halogen Oxyacids as inferred from Thermochemical Data. (G. W. U. Bull., 3 [4], 94-103, 1904.)
- William Mather Lamson, (Architecture)  
 B.S., 1897, C.E., 1899, Columbian University.  
 Thesis: Iron and Steel Domes. (Not published.)
- Thomas Malcolm Price, (Biochemistry)  
 B.S., Maryland Agricultural College; M.S., 1900, Columbian University.  
 Thesis: The Influence of Varying Strength Solutions of Formaldehyde on some of the Enzymes of Animal Origin. (G. W. U. Bull., 3 [4], 104-108, 1904.)
- Harriet Richardson, (Zoölogy)  
 A.B., 1896, A.M., 1901, Vassar College.  
 Thesis: Contributions to the Natural History of the Isopoda. (Proc. U. S. Nat. Museum, 27, 1-89, 1904, and Bull. U. S. Fish Com., pp. 47-54, Sept. 17, 1903.)

## 1904.

- William Macon Coleman, (History)  
 A.B., 1858, A.M., 1892, University of North Carolina.  
 Thesis: A Refutation of Mommsen's Theory on Cæsar's Agrarian Policy. (Not published.)
- Frank Van Vleck, (Mechanical Engineering)  
 M.E., 1884, Stevens' Institute of Technology.  
 Thesis: Improvements in Ship Construction. (Not published.)
- Andrew Wilson, (American History)  
 B.S., 1885, B.O., 1886, B.A., 1886, M.A., 1890, Kansas Normal College; LL.B., 1890, LL.M., 1891, Georgetown University; M.L., 1892, D.C.L., 1893, Yale University.  
 Thesis: Influence of John Marshall on the Political History of the United States. (Not published.)

## 1905.

- Ray Smith Bassler, (Palæontology)  
 B.A., 1902, University of Cincinnati; M.S., 1903, The Columbian University.  
 Thesis: A Study of the James Types of Ordovician and Silurian Bryozoa. (Proc. U. S. Nat. Museum, xxx, 1906, 1-66, pls. I-IV.)

Hiram Colver McNeil,

(Chemistry)

B.S., 1896, M.S., 1899, Denison University.

Thesis: On the Constitution of Certain Natural Silicates. (G. W. U. Bull., 4 [3], 76-79, 1905.) (Journal American Chemical Society [28], 590-602, 1906.)

Henry Albert Pressey,

(Hydraulic Engineering)

B.S., 1893, The Columbian University; B.S., 1896, Massachusetts Institute of Technology.

Thesis: Flow of Water in Channels. (Not published.)

Warren Waverley Phelan,

(Comparative Jurisprudence)

B.A., 1894, M.A., 1896, Columbia University.

Thesis: An Historical Sketch of the Criminal Law of Louisiana from the Founding of the Colony to the Establishment of the State. (Not published.)

1906.

Cornelius Lott Shear,

(Botany)

B.S., 1896, M.S., 1900, University of Nebraska.

Thesis: Cranberry Diseases. (G. W. U. Bull., 5 [4], 75-78, 1906. Bulletin 110, Bureau of Plant Industry, U. S. Department of Agriculture, 1907.)

Martin Norris Straughn,

(Agricultural Chemistry)

B.S., 1899, Maryland Agricultural College; M.S., 1902, Columbia University.

Thesis: The Chemistry of Different Varieties and Individual Ears of Sweet Corn as Affected by Enzymes, Climatic Conditions, and Breeding. (Bulletin 120, Maryland Agricultural Experiment Station, 1907.)

1907.

Rev. George Brodthage,

(Germanics)

Universities of Strasburg, Berlin and Göttingen.

Thesis: Germanentum, Gottmenschentum. (G. W. U. Bull., 6 [3], 82-86, 1907.)

Frederick Warren Grover,

(Physics)

B.S., 1899, Massachusetts Institute of Technology; M.S., 1901, Wesleyan University, Connecticut.

Thesis: Simultaneous Measurement of the Capacity and Power Factor of the Condensers. (G. W. U. Bull., 6 [3], 92-95, 1907. Bulletin of the Bureau of Standards, May 23, 1907, Reprint No. 64, pp. 371-431.)

Edward Elliott Richardson,

(Philosophy)

B.S., 1904, M.D., 1895, M.S., 1905, George Washington University.

Thesis: Mechanism and Teleology. (G. W. U. Bull., 6 [3], 87-91, 1907.)

Rabbi Abram Simon,

(Philosophy)

1894, Cincinnati Hebrew Union College; B.L., 1894, University of Cincinnati.

Thesis: The Constructive Character and Function of Religion in Human Progress as Illustrated by the Religion of Israel. (Not published.)

Walter Otheman Snelling,

(Chemistry)

B.S. in Chemistry, 1904, Columbian University; B.S. in General Science, 1905, Harvard University; M.S., 1906, Yale University.

Thesis: Contributions to the Knowledge of Tellurium. (Not published.)



Warner W. Stockberger, (Botany)

B.S., 1902, Denison University.

Thesis: The Effect of Certain Toxic Solutions on Nuclear and Cell Division in Root Tips of *Vicia Faba*. (Not published?)

Frank Cummings Cook, (Chemistry)

B.A., 1900, M.A., 1902, M.S., 1904, Yale University.

Thesis: Phosphorus Metabolism Experiments. (Not published.)

1908.

Clara Southmayd Ludlow, (Preventive Medicine)

B.S., 1900, M.S., 1901, A. and M. College, Mississippi.

Thesis: The Mosquitoes of the Philippine Islands. The distribution of certain species and their occurrence in relation to the incidence of certain diseases. (Published separately, Washington, D. C., 1908, 65, pp.)

Benjamin George Wilkinson, (History)

B.A., 1897, University of Michigan; M.A., 1905, Union College.

Thesis: The Overthrow of the Concordat by the Third Republic. (Not published.)

1909.

William Clifton Phalen, (Geology)

S.B., 1899, S.M., 1902, Massachusetts Institute of Technology.

Thesis: Economic Geology of the Kenova Quadrangle in Kentucky, Ohio and West Virginia. (Bulletin 349, U. S. Geological Survey.)

Harry Wilson Houghton, (Biochemistry)

B.S. in Chemistry, 1906, M.S., 1907, The George Washington University.

Thesis: The Effect of Cold Storage on Chicken Meat. (Not published.)

George Whitfield Stiles, Jr. (Preventive Medicine)

B.S., 1900, Oklahoma Agricultural and Mechanical College; M.D., 1905, The George Washington University.

Thesis: The Possibility of Shellfish Contamination from Sewage-Polluted Waters. (Not published.)

Luther Hess Waring, (Germanics)

B.A., 1905, The George Washington University; M.A., 1904, Columbian University.

Thesis: Martin Luther's Political Reforms of Germany. (Not published.)

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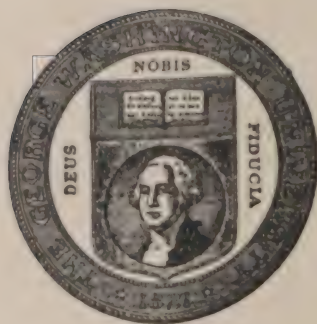


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# The George Washington University

## BULLETIN

VOL. VIII

OCTOBER, 1909

No. 3

### OPENING DAY.

The University opened on Wednesday, September 29. There was a general gathering of the faculties, students, alumni and friends of the University; University Hall was filled to overflowing and there was much enthusiasm. Addresses were made by the President of the University, Commissioner Henry B. F. Macfarland, Chairman of the Board of Trustees, Mr. Justice Harlan, of the Supreme Court of the United States, and Mr. David A. Baer, representing the student body.

### THE UNIVERSITY AND THE DISTRICT.

President Needham, after words of welcome to the members of the faculties and to the old and new students, said:

To-day the University enters upon its eighty-ninth year, with an increased number of registered students over last year. There is something that comes out of the years that neither money nor labor can secure. Time softens the colors and adds beauty to works of art, and it gives tone and strength to institutions. Words cannot define or interpret it, but every sensitive and true heart can feel it. There are some visible things that can be enumerated.

First, there are the organized faculties, with able, trained teachers, fitted into the environment, working together with a common knowledge of the existing needs and opportunities, and with definite aims to accomplish the common purpose. Such an organization is of immense value, representing the collective power and genius of men, and the cumulative force of an organization which has had a continuity of existence for a long period of time.

Next, there is the student body. Universities exist primarily for the students. A university without students is an organization without purpose or excuse for being. Every object and aim centers in the student body. An organized student body of fifteen hundred is a great possession; it is power capitalized. It takes time for an institution to



secure a good body of students, for such a body of students is the result of good educational work. Many think that to establish a university requires only buildings, a faculty, advertising and open doors. The fact is, ninety per cent of a large student body comes as the result of commendation of the work by the students themselves. If they are pleased they say so and others come. To gain a large and stable body of students is the work of time.

Again, back of the student body there are the alumni—in this institution six thousand—with their memories, associations and attachments; their power and influence to advance the common good. The alumni are the most valuable constituency that an institution of learning can have. They are the spiritual constitution, the reserved power, the stored energy of the university.

These three factors are the visible things that come with the years, and can be acquired only by a long and honorable institutional life.

Every institution must justify its being by its service to the community in which it exists. Not what it *offers* to do will determine its value, but, rather, whether it meets the needs of the community it tries to serve.

During the summer it was my privilege to converse with many men regarding the demands in the District of Columbia for higher education. Most men have heretofore, I regret to say, considered this question from an outside standpoint—the needs of the country at large and not those of the District. This has led invariably to the conclusion that a university here should do only graduate work, and even that should be done within a very limited sphere. This view is true so far as the real needs of the country at large are concerned, but it does not touch the needs of this District. We have a large population, larger than some of the smaller States, and as such we are entitled to have our own peculiar and pressing needs considered in determining the character of a university to be supported here.

There are two large bodies of students permanently within the District demanding higher education, and both are increasing with the years. The first group appeals to every loyal resident of the District. It is composed of the young men and women who have no other residence. Their life is here and their education must be obtained here. They are the sons and daughters of army and navy officers, and men in the civil service of the United States. Many of these young people must get their college, and technical and professional training within the District or they cannot obtain it at all. The District offers few opportunities to the rising generation. The desirable occupations offered in Washington are mainly governmental. These places are secured through the civil service examinations. These examinations are not open, as a rule, to residents of the District, but are reserved to the more

avored residents in the States who possess the power of the ballot. The young men and young women reared within the District must, therefore, go out into the States to earn a livelihood. There they come into direct competition with young men and women who have been educated in the State and privately endowed universities. Without a college education they are rated as inferior and are seriously handicapped. If they secure simply a college education they are still at a disadvantage. Without specialization the pursuits of engineering, teaching, law, medicine and other callings are closed to them.

Last year we had 573 students registered in this University who had no other residence than the District of Columbia. There are approximately 140,000 white people living in the District who are dependent upon salaries paid by the United States Government. A large number of these men, fathers of our young people, are college graduates, and the mothers are highly educated women. These parents are anxious that their sons and daughters should have a college education. But salaries, ranging mainly from one thousand to twenty-five hundred dollars, will hardly permit the sending of one or more of the family out of the District to secure college and professional education. The cost of sending a young man away to college will average about one thousand dollars per year. This amount, where the salary is small, makes it almost impossible to give a young man or woman a complete education, especially if there be more than one in the family to be educated. This body of students, for the college and professional schools, is of unusually high grade and should, when considered with the necessities existing here, appeal strongly to all who intelligently consider the need for an institution of higher learning in this District. The material and moral well-being of our sons and daughters here demand a university that serves the District by giving sound training in collegiate, technical and professional schools of college grade. While many from the States will come here to attend such a university, it is, after all, a District problem. The people outside will not solve it for us. Washingtonians must clearly apprehend the situation and the demands, and press strongly for an institution that meets all of these needs, one that will thoroughly educate our young people for the higher walks of life.

There is also another body of students located within the District, who must obtain their professional education here if they secure it at all. I refer to those who are employed in the Departments of the Government or as secretaries to Representatives, Committees, Executive Officers and public men. The employment of these men is of such a nature, and their hours of employment are so well regulated, that they have at their disposal considerable free time, which they can use in perfecting their education. Many of them come here with their college course incomplete and they desire to complete it. The most of them,



however, are men who have pursued their education to the point of entering professional or technical schools.

There are two motives impelling this class of students to higher education. Many do not desire to make their employment here a permanent life work, but desire to follow it during a few years of their young manhood to enable them to secure a good professional training. As soon as this is obtained they go out into the States, and enter the professions, become active in civic affairs, and if well trained, develop into the best citizens. They have felt the impulse and studied the movements of national and international life. They go back to their homes, carrying with them this influence and spirit, and many of them will become the public servants of the people. Others are fitting themselves for higher and better work in the government service. They seek advancement through the improvement of their talents. This motive has been encouraged in other nations, especially in Germany, by making it possible for the young men in the public service to take university courses in order that they may become more efficient men.

If this body of men secure any education it must necessarily be in the city of Washington. They have not time to go elsewhere. There is but one question regarding these men, and that is, shall they have as good an education here in professional and technical schools as is given to university students elsewhere? Many are men of high order, remarkably active and efficient in every way and, as noted, will become positive factors in determining future governmental policies of the several States and of the United States. These men ought to be educated in the most thorough way, especially in the political sciences and in the professions. Of this large body of students too many, it is true, seek degrees rather than thorough knowledge and intellectual discipline, but there is a large minority who sincerely desire the best education and are willing to give additional years to it. To all who have to do with university education in the District of Columbia and to the noble givers to educational enterprises, I submit this question, Is it not of the greatest importance to the future of this country that these men be given the best university training?

These two bodies of students to which I have referred, residents of the District of Columbia and compelled to obtain their education here, are quite sufficient to maintain a true university of the highest order. I do not exaggerate when I say that such a university, properly equipped with buildings, laboratories and other facilities, will have a student body of three or four thousand without drawing upon the clientele of any other institution of learning.

In view of these local needs of the District of Columbia, we may well ask, what are the aims and the work of the George Washington University?

1. *College of Arts and Sciences.*—We are maintaining a college of liberal arts. This work is fundamental to all higher education. It provides the cultural training that gives a man the control of his intellectual faculties; the history of the intellectual development of civilized men; the finest ideals and the broadest views of human life. It is the college that in the highest and truest sense makes one a man of the world. It should teach something in every field of human knowledge and provide thorough education along as many lines as its resources will permit. We have gradually broadened the opportunities for students in the College by furnishing, in addition to our excellent courses in the old lines of college education, courses in the modern sciences; and we have provided teachers in these lines who are specialists in the subjects taught. With our resources it is impossible to offer as many courses as are offered in larger and better endowed colleges, but we have endeavored to place at the disposal of our students a good teacher in every field of education covered in the best colleges. With better facilities and more endowment, this University should offer more work and our teachers should not be required to teach as many hours per week as they are now required to do. It is not enough to have good teachers, but we should give to these teachers the opportunity to keep their minds fresh and active, renewing them continually through study and research work. This requires that the teacher should have some time at his disposal outside of the class-room hours and the time required to make preparation for the class. The College, with its three hundred students doing excellent work, is in need of liberal endowments.

2. *College of Engineering and Mechanic Arts.*—In this strenuous age, with few exceptions, no man can enter the desirable positions in the industrial world without special technical training. It is our aim to provide for the District of Columbia a College of Engineering and Mechanic Arts, doing work of college grade. This field is growing larger every year, calling more urgently for trained men. It furnishes opportunities for higher employment, of which we can ill afford to deprive our young men who are compelled to go out from the District into the States to find remunerative employment. A well-equipped and endowed college of the mechanic arts is as essential in the District of Columbia as it is in any other community. We have the very best student material and nearly two hundred already registered in these courses. Our facilities are inadequate, but the earnest men in our faculty are striving with all the energy and ambition possible to give these students the technical knowledge that will be helpful in making them efficient and self-supporting members of society.

3. *Division of Architecture.*—Another branch of our work is the Division of Architecture. This is one of the finest of the fine arts, as well as one of the most useful of employments. It has been said that a



people pass out of savagery when men become carpenters, and they pass into the highest civilization when carpenters become architects. The growing demand throughout the country for trained men in this line of employment offers special inducements to young men of fine quality and attainments. The opportunities for the study of architecture in the City of Washington are very great; the best examples of our colonial architecture are to be found in this vicinity. We already have sixty men in these courses, and with proper facilities and additional teachers we could soon double, and I think quadruple that number.

4. *Teachers' College.*—In 1906 Congress passed an act for the reorganization of the public schools of the District of Columbia, in which it was provided that new appointees to positions in the high schools and normal schools should have had a college education and pass the examinations prescribed by the Board of Education. Among other subjects the Board of Education prescribed for examination were psychology and pedagogy. One of the results of this excellent legislation was to close the doors of positions in the high school to young men and women of the District, unless this required education was furnished them here. They must secure it here if they secure it at all. Our college of liberal arts meets the first requirement, and to meet the second we began the establishment of a Teachers' College, putting in courses in the required subjects of psychology and pedagogy. This work is not as extensive as it should be, but it is thorough and excellent and provides for our young people the education which is required by the statute and it will enable them to secure and more ably perform the duties of teachers in the high schools. The work in the Teachers' College is based upon two years of college work; the technical courses coming in the third and fourth years, leading to a Bachelor's degree and a teacher's diploma.

5. *Political Sciences.*—Of the large body of students here there are many who desire to take special work in the political sciences, fitting themselves the better for service in all branches of government. This body of students includes those who hope to become legislators and executives in the States, and those who would enter the home and foreign service of the nation. Here where the great functions of government are being exercised daily, where the influence of these activities is felt and where the data that needs to be studied is found in its original sources, the student has an opportunity to study the political sciences not equalled in any other place in the United States. We, therefore, have established the College of the Political Sciences, with a two-year undergraduate course; requiring for admission two years of college work. This enables those who are pursuing an undergraduate course to put the emphasis of their work in the third and fourth years upon the political sciences. This College also offers two years of graduate work to those who have a Bachelor's degree. In this college

we have gathered a few well-equipped and most earnest teachers; they have come to us from the best institutions of learning in the country, after pursuing specialized graduate courses, having also had experience as teachers. This work has received some generous contributions and has already accumulated a very good working library. What we need is its permanent endowment to an extent that will enable us to enlarge the faculty and increase the number of courses offered in order to meet the growing demand for this education at the national capital.

This completes the circle of the *undergraduate* work which the George Washington University is now doing and in which it has registered over six hundred students.

6. *The Faculty of Graduate Studies.*—There is one field of education about which all agree. Those outside as well as those within the District unite in saying that this capital city has unusual facilities for the pursuit of graduate study. The research student finds here rich stores of original matter that cannot be found in any other city. Our libraries and museums and other store-houses of knowledge in many of the departments of the Government are a constant and drawing attraction to the scholars of our own and other lands. No university is complete without its faculty of graduate studies. This department of our work is steadily growing, both in numbers and in its reputation for good work. In the faculty there are men of national reputation doing noble work in the sciences, and many of them are on the outposts discovering new knowledge. Last year we had over one hundred in this division of our work, and the registration at the present time gives promise that this year we shall have an equal number. No division of educational work appeals more widely or more strongly to people of the whole country for maintenance and generous support than does this work of the graduate faculty.

7. *The Law School.*—The speaker of the House of Representatives, in a public address, stated that during his public life he had brought to Washington over thirty young men who had taken courses in law in this University. Other public men have been doing likewise. The University authorities some time ago felt impelled to provide for the District of Columbia a law school that should be equal to the best schools in the country. A policy was therefore adopted gradually to recast and improve this work. The courses were enlarged, the standards of admission raised, trained teachers employed giving their whole time to the work, and new methods of instruction, which required much more work from the students, were adopted. Recognizing the difference in the two groups of students to which I have referred, we now have a three-year course of fourteen hours per week, leading to the Bachelor of Laws degree for full-day students. For those employed part of the day, we require four years of work, with ten or eleven hours per week—aggre-



gating forty-two hours in four years—for the Bachelor of Laws degree. By thus limiting the class-room hours the students giving only a part of their time are enabled to make the full preparation required for their class hours, and the standard of the work and the value of the degree are upheld. This policy was adopted two years ago and it is worthy of note that at the last meeting of the Association of American Law Schools, composed of thirty-eight of the best law schools in the country, a like provision was adopted as a requirement for all its members granting the Bachelor of Laws degree. We are steadily growing toward the ideal which we have set before us, and while the number of students in this school was reduced by these higher requirements, a new growth has begun that will carry us beyond the registration of former years, under the old method of didactic lectures. There is a sound body of students here who want the best education in law, and the number is sufficient to maintain a school of the first order in the District of Columbia.

8. *The Medical School.*—We have also created a new ideal for the Medical School and are upon the way toward realizing it. Didactic lectures have been largely supplanted by the laboratory and clinical methods. The adoption of these methods requires the student to give his days to the work, and we are, therefore, registering only full-day students at the present time. Thoroughly trained scientific teachers have been employed for the laboratory courses, and the professors in medicine and in surgery have adopted the clinical method of teaching. The standards of admission and work have been raised and while this advance has, as in other departments, reduced the number of registered students, we believe that in the long run the University will greatly benefit by the higher efficiency and professional standing of its graduates in medicine.

In connection with this work we have a Dental Department, a College of Pharmacy and a College of Veterinary Medicine, the last two colleges being upon independent financial foundations and management, but affiliated with the University. These colleges are offering to the young men of the District excellent education in these lines, and are fitting them for employments which offer many desirable positions.

I might dwell longer upon these branches of our work. I desire simply to present them as showing the sincere effort of the George Washington University to meet the real demands in the District of Columbia for collegiate and technical and professional education of university grade and to show that we are trying to serve this community and furnish to the hundreds of young men and young women in the District opportunities for education which will put them above the ordinary employments, into those fields of human endeavor which are giving to America to-day its best civilization.

Mr. Macfarland said:

"We of the national capital are proud of the George Washington University. Its President, its faculty, its graduates, its undergraduates, its high standard, its efficient results, all are worthy of the great name it bears. It is one of the established institutions of Washington, whose success means even more to the city than to the University. A great university does more for any city than the city can do for it. It brings not only profit, but honor and glory. Witness the universities which give fame to other cities at home and abroad. All constructive Washingtonians desire to build up this University, as they desire to build up this city, knowing that nothing they can do for the city would be better than what they can do for this University. The greater Washington, the most perfect capital on earth, which is our ideal, demands a greater university. Much has already been done, especially under the administration of President Needham, to make this University what it should be. It has obtained a new position in the educational world, it has drawn additional students from all over the country and all over the world, it has had the expressed approval of the highest officers of the national Government, and all that is best in our citizenship. What it most needs is what all colleges need, more income. No college can be self-supporting. It would become a commercial and not an educational institution, if it were self-supporting, and would shut out the students it ought to welcome. This University ought to have, like every other college, an adequate endowment, the income of which would supplement its receipts from students. Every effort has been made and will be made, to obtain such an endowment. The argument to men of wealth for such contributions to a university in the national capital, with all that capital's wonderful educational facilities at its command, the opportunity to carry out George Washington's last desire for a university in the city that he founded, taken with the high standard of efficiency without which it could not ask for endowment, make me certain that our efforts will be successful. Moreover, Congress must see the justice of giving the District of Columbia the benefits of the Morrill Act, and in the concrete the money to be paid here under that act in proportion to the gifts to the States, would come to this University as the only institution doing the work which the Morrill Act requires. Let us all work together with new zeal and enthusiasm to obtain for the University what it needs and so richly deserves, from private wealth and from the national treasury."

After referring, humorously, to the false reports in the press as to the poor state of his health, Justice Harlan said he had decided to make a point of giving up one week of the golf games he had enjoyed so much at his Canadian summer home during the entire summer, in order that



he might put in an appearance at the opening exercises of the University, simply to let them see how a sick man looked! Among his further remarks were the following:

"The words just spoken by President Needham and Mr. Macfarland ought greatly to encourage us as to the future of the George Washington University. Let us all work together for the upbuilding of this institution. This is no time for any division of opinion. Let each teacher and student of the University take as his motto, 'All for each, and each for all.'

"As I am not on the printed program of speakers, and have not expected to speak on this occasion, I shall not undertake to deliver an address. I simply wish to say to the students, and especially to the law students, that I take it for granted that you are here for work and not for play. The work before you is such as to require the utmost industry and diligence. The law is a jealous mistress and will demand every power that is in you, if you are to succeed. Nothing in this life worth having can be achieved without hard labor."

#### UNIVERSITY APPOINTMENTS.

The following appointments have been made in the University since the last Commencement:

##### COLLEGE OF ARTS AND SCIENCES.

WILLIAM WEBB SNIFFIN, A.M.... Assistant in Romance Languages and  
Literatures

##### COLLEGE OF ENGINEERING AND MECHANIC ARTS.

CHARLES F. WILLARD, B.S..... Instructor in Mechanical Engineering  
HAYNER HASKELL GORDON, E.E.... Instructor in Mechanical Engineering  
GLENN RUPERT LAWRENCE..... Assistant in Civil Engineering

##### COLLEGE OF THE POLITICAL SCIENCES.

HOWARD LEE MCBAIN, Ph.D..... Dean and Assistant Professor of  
Political Sciences

Dr. McBain graduated from Richmond College in 1900, took graduate work at Chicago University and Columbia University and received from Columbia University the degree of Doctor of Philosophy in 1907. He was President's Scholar in Constitutional Law, Columbia University, and winner of the Toppan Prize in Constitutional Law, Columbia University, in 1905. Dr. McBain was a lecturer in Constitutional History at the University of Virginia and in Constitutional Law and History in the Interstate Normal Sociological Congress, in 1907. He has published a number of valuable text-books on Civil Government.

ROBERT R. KERN, Ph.D.....Instructor in Economics

Dr. Kern graduated at the University of Missouri, taught in Columbia University and Cornell University and came to this University from the Chicago University.

#### DEPARTMENT OF LAW.

HARRIES A MUMMA, A.B., LL.B.....Assistant Professor of Law

Professor Mumma graduated at Harvard University 1906, and from the Harvard Law School 1909. He has had a successful experience in teaching law as an instructor at Harvard.

#### DEPARTMENT OF MEDICINE.

WILLIAM CLINE BORDEN, M.D.....Professor of Surgery and Dean

Dr. Borden graduated from the Medical Department of the Columbian University in 1883. He commanded the Army General Hospital, Key West, Fla., during the Spanish-American War, and also commanded the Army General Hospital in Washington nine years. He was mainly instrumental in permanently establishing that institution and in securing from Congress \$300,000 with which land was purchased in the District and the present "Walter Reed United States Army General Hospital" erected. Dr. Borden personally supervised the preparation of the plans for this hospital. He commanded the Division Hospital at Manila, 1908, and has commanded two of the most important general hospitals of the army with exclusive control of all medical, surgical and administrative matters connected with them. Dr. Borden is Lieutenant-Colonel, Medical Corps, United States Army, Retired. He is the author of many articles contributed to the medical journals, and is a frequent contributor to prominent scientific magazines.

FREDERICK F. RUSSELL, M.D...Professor of Pathology and Bacteriology

Major Russell, of the Medical Corps of the United States Army, is Pathologist at the Army Medical School and Curator of the Army Medical Museum. Major Russell is the leading Pathologist in the Medical Department of the Army. He was selected by the Surgeon-General of the Army to fill the place in the Army Medical School made vacant by the deaths of Majors Reed and Carroll, the discoverers of the method of the transmission of yellow fever, both of whom also taught Pathology in the George Washington University Medical School.

#### DEPARTMENT OF DENTISTRY.

C. G. SHOEMAKER, D.D.S.....Instructor in Orthodontia Technics

J. WINSLOW TAYLOR, D.D.S.....Instructor in Prosthetic Technics

HENRY CISELL YOUNG, D.D.S.....Instructor in Prosthetic Technics

HERBERT C. HOPKINS, D.D.S.....Instructor in Operative Technics

JULIAN GARTRELL, D.D.S.....Assistant Professor of Materia Medica

#### TEACHING FELLOWSHIP.

HOWARD BISHOP LEWIS, B.A.....Department of Chemistry



### BOARD OF TRUSTEES.

The regular quarterly meeting of the Board of Trustees was held Wednesday, October 13, 1909. A large number of the Board were present. The President of the University submitted his annual report. This report reviewed the work of the year which closed August 31, 1909, and showed that the number upon the teaching staff for the year was 185; total number of students enrolled 1508; 56 students were from 23 foreign countries and 1452 from the United States representing 48 States and territories. There were 573 students enrolled from the District of Columbia. During the year five honorary degrees and 188 degrees in course were conferred.

The Treasurer's report to the Board showed the total receipts \$175,637.08. The total expenditure \$249,278.04. The total assets of the University were shown by this report to be \$1,393,703.21. Total liabilities \$516,935.54. Excess of assets over liabilities \$876,767.67.

The Budget for the year ending August 31, 1910, approved by the Board of Trustees in June, 1909, shows an estimated income of \$159,061; an estimated expenditure of \$215,414.16. Estimated reduction, therefore, in expenses as compared with the report of last year \$33,863.88.

The President submitted four important recommendations to the Board of Trustees, which were unanimously adopted and committees were selected by the Board to carry into effect the recommendations of the President. These recommendations were as follows:

(1) That the subscribers to the building site and endowment fund be immediately asked to transfer their subscriptions so as to make them applicable to the payment of current expenses, and that new subscriptions be solicited.

(2) That we dispose of the property on the corner of H and Fifteenth streets and pay all the debts of the University, in order that we may appeal for aid and endowment, as we never before have been able to do, upon the basis of absolute freedom from debt.

(3) That we organize a citizens' committee, upon which there shall be men who create public opinion to aid in our appeal to Congress to give the District and the University the benefits of the "Morrill Act."

(4) That systematic personal appeals be made to rich men for contributions to the endowment fund.

### FALL CONVOCATION.

A large audience attended the exercises of the Fall Convocation on October 20, 1909.

The Trustees, Faculty and students assembled in University Hall at 4.45. The platform and walls were decorated with American flags

arranged under the direction of Mr. Frederick D. Owen. On the platform were assembled, the President of the University, Judge Thomas H. Anderson, Dr. E. M. Gallaudet, Rev. Samuel H. Greene, William F. Mattingly, Esq., Mr. Theodore W. Noyes and Mr. Abram Lisner, of the Board of Trustees; Mr. Justice Harlan and Mr. Justice Brewer, of the Supreme Court of the United States; members of the faculties and officers of the University in academic dress.

After the invocation pronounced by Rev. Richard D. Harlan, D. D., Prof. William R. Vance, Dean of the Law Department of the University, spoke upon Legal Education in the District of Columbia. Dean Vance's address was as follows:

#### LEGAL EDUCATION IN THE DISTRICT OF COLUMBIA.

That quaint humorist, Private John Allen, once remarked at a dinner of the American Bar Association that he was always glad to attend the meetings of that body, for nowhere else did he hear lawyers so well spoken of. It is pleasant to hear ourselves spoken well of, even if we ourselves must needs do the speaking. Further, I am well aware that he who insists on speaking in criticism rather than praise of conditions about him is usually regarded as an undesirable citizen. Therefore, in speaking of legal education in the District of Columbia I would gladly fall in with the sentiment of the ambitious advertisement of a local law school declaring that Washington is "the greatest center of legal learning in the United States." But I greatly fear that the enthusiast who penned that advertisement exceeded even the license accorded to poets and advertisers. I suspect that he might with greater accuracy have said that nowhere else in the United States do those who desire to promote legal learning find themselves confronted with so many obstacles to the maintenance of right standards, and that nowhere else is legal education so fully commercialized. These be hard sayings, but they are often heard by those not dwellers in the District, and we should not pursue the foolish policy of the ostrich, and close our eyes to the facts. What are those facts?

In the first place, it is unquestionably true that Washington is an important center of legal training. It is a natural center of legal interest, and young men from all parts of the Union turn to Washington as a place for study of the law. In Washington also they see opportunity to earn a livelihood by securing employment in the government service while they pursue their legal studies. Hence they come by hundreds, so that in a little district of less than a quarter million of white people, we find in the law schools during the session 1907-1908 more persons preparing for the profession of the law than in any of the States of the Union save New York, Illinois and Massachusetts. During that session



3126 law students were in the schools of New York, 1992 in Illinois, and 1314 in Massachusetts, while in the District of Columbia there were 1251. The report of the Commissioner of Education for the session 1908-1909, not yet published, will show the District of Columbia in the third place with 1334 students, New York and Illinois only leading it, with 3218 and 2127 students, respectively. Thus it appears that as a training center for the profession of the law Washington now stands third in importance in the entire United States. Further, this high rank in number of law students has here a peculiar significance which should not escape our attention. In New York nearly all of the swarming hosts of law students expect to practise their profession in that State, so that the preparation required of them for the calling they aspire to is largely a matter of local interest, with which the country at large is only indirectly concerned. The same thing is true in lessening degree of Illinois and Massachusetts. But the bar of the District absorbs only a very small percentage of its annual output of young lawyers. It is a conservative estimate to say that ultimately one-half of the graduates of the Washington law schools disperse themselves over the several States of the Union, and there offer their professional services to the public. Therefore, when the thoughtful and conscientious resident of Washington is asked the question, "What manner of training is given to those hundreds of young men who are held out to the world as qualified to practise law?" he knows that in answering he is responsible to the country at large, and not merely to his neighbors. In other words, the people of Washington labor under the heavy responsibility of knowing that if they are failing in their duty to fit these young men properly for the public service society has a right to expect of members of the bar, they injure the people of other States more grievously than themselves. Thus for us the question assumes a peculiar seriousness, not only worthy of, but imperatively demanding, the best thought and active interest of our people.

Are we, then, properly training these hundreds of young men in our law schools? In answering this question intelligently we are driven back to certain fundamental principles and some most uncomfortable facts. The overwhelming importance of the legal profession in our Anglo-Saxon civilization in making and administering the laws that determine our liberties, our property rights and our social well-being, is so well known that it fires the imagination of even the little man of ten who puzzles his way through the third reader. Of that nothing further need be said. But when we pause to inspect the work of the American lawyer, to reckon the measure of his success in performing his great function, the intelligent American must hang his head in deep humiliation. Bluntly put, from an economic standpoint the American lawyer has proved a failure. In no other free and civilized country are

the laws so ill administered as in these United States. We lead the world in most of the great struggles mankind is making "to rise on stepping-stones of their dead selves to higher things." In machinery that reduces natural forces to the service of men, in the reclamation of waste places for the feeding of the nations, in agricultural processes, in transportation and in exploration and the struggle for mastery of the air, American genius and enterprise command the admiration and gratitude of the world, but in the administration of the law America lags two generations behind the rest of the civilized world. No constructive reforms of a comprehensive kind have been seriously attempted since the days of David Dudley Field, now passed a half century. Our inefficient and wasteful procedure in civil actions is a reproach to the nation and discreditable to the bar, while our procedure in criminal cases, with its enormous expense, its incredible delays and its frequent and gross miscarriages of justice, is a stench in the nostrils of the nations. No proof of the truth of these statements is needed by the intelligent American citizen whose eyes are open, but if there be any here who doubt, let him read the unanswerable arraignment of our American legal system made by Judge Roscoe Pound before the American Bar Association in 1906. From this address we may quote just one characteristic paragraph:

"A comparison of the volume of business disposed of by English and by American courts will illustrate the waste and delay caused by archaic judicial organization and obsolete procedure. In England there are twenty-three judges of the High Court who dispose on the average of fifty-six hundred *contested* cases, and have before them, in one form or another, some eighty thousand cases each year. In Nebraska there are twenty-eight district judges who have no original probate jurisdiction and no jurisdiction in bankruptcy or admiralty, and they had upon their dockets last year forty-three hundred and twenty cases, of which they disposed of about 70 per cent. England and Wales, with a population in 1900 of 32,000,000, employ for their whole civil litigation ninety-five judges, that is, thirty-seven in the Supreme Court and House of Lords and fifty-eight county judges. Nebraska, with a population in 1900 of 1,066,000, employs for the same purpose one hundred and twenty-nine. But these one hundred and twenty-nine are organized on an antiquated system and their time is frittered away on mere points of legal etiquette."

This growing popular dissatisfaction with our administration of law is echoed from day to day in our newspapers and other periodicals. Take as an example a recent editorial appearing in the Chicago Tribune, commenting on a pending bill in the Illinois legislature to increase the number of judges. After stating that 92 judges dispose of all the litigation arising in England and Wales, while in the State of Illinois, with 4,800,000 people, there were employed 241 judges, exclusive of



justices of the peace and judges of the federal courts, this editorial asks, "Why is a great nation of 32,000,000 well served by 92 judges, while a State of less than a sixth of the population needs two and a half times as many judges? What is needed, and what the tax-payers should demand, is fewer judges, not more. There would be no need for even the judges we have if the leaders of the bar would perform their plain and urgent duty of formulating a reform of our present preposterous judicial establishment."

As to the ineffective administration of criminal law one need only refer to the disgraceful number of lynchings, and such humiliating exhibits as the Thaw trial in New York and the Shea trial in Chicago.

Of course, it is true that we have had, and have now, many great judges and lawyers of the highest type, men of great ability and learning, who have approached their professional duties with earnest and honest purpose, and have deserved well of their country for noble service rendered. In every community there are many members of the bar who stand out as blessed and beneficent exceptions to the prevailing disregard for everything save the selfish returns of professional activity. These lawyers of loftier moral stature may protest and urge reform, and banding themselves together in bar association committees put forth well-worded and admirable codes of legal ethics, but their voices are as voices of those that call in the wilderness. The scuffling hordes of runners, ambulance chasers and legal sharks do not pause in their trumped-up actions, their suborning of testimony, their preying upon the ignorant and unfortunate, long enough even to listen to the would-be reformers. The large and influential class of respectable, successful lawyers smile indulgently when they hear, and wonder how any one can find the time to divert his attention from his business and fee-book to consider such matters as the interest of the public in the administration of the law—and then turn again to reaping the harvest that comes from the dilatory and antiquated procedure, complacently remarking that this same procedure which vexes the public almost beyond endurance, is the blessed legacy which we enjoy from the accumulated wisdom of twenty generations of wise and learned judges. Blessed legacy! One might as well speak of the blessed legacy of barnacles derived from a voyage of ten thousand leagues at sea!

What then is the lesson of this dark and distressing picture? It seems to me that it is so plain that he who runs may read. The legal profession in America is blighted by two serious faults. The *first* is a low moral tone manifesting itself in its worst form, in deliberate preying upon the public, legal parasitism, and in its less repulsive form, in a selfish indifference to the deep public interest with which the calling of the lawyer is affected. The *second* is a lack of knowledge of the law as a science, as distinguished from knowledge of the law as a craft.

The great majority of our lawyers are merely craftsmen, without real knowledge of the science of the law in the sense of knowing the history of its rules and processes, the social conditions out of which they sprang as differing from the social conditions upon which they operate to-day. The craftsman at the bar has learned certain rules of substantive law and how to operate the machinery of legal procedure. These are the tools of his trade, just as much as are the hammer and saw the tools of the carpenter's trade. He regards these rules, of origin unknown to him, as too wonderful and sacred to be changed or questioned, and further, if these rules, many of them antiquated and hurtful, were changed, our craftsman would be deprived of the tools with which he is familiar and must needs painfully acquire others. Hence he sets his face, which is not infrequently the face of a powerful man and a successful lawyer, firmly against any change. Meanwhile the public suffers and groans under the heavy burden of delay and expense.

This condition of affairs cannot, must not endure. These two dangerous defects affecting the great body of American lawyers, the low moral tone and the inadequate knowledge of the law as a science must be removed. And, it seems to me, the way to accomplish this is plain to see and open. The bar can scarcely be expected to reform itself adequately. For many of those who profess to practise law adequate reform of our procedure would mean professional suicide. The great American theory of the open door of opportunity for every young man, however poor and ignorant, has been long misapplied so as to open the door of professional life to thousands of men who were ill equipped for the serious responsibilities and heavy labors of the lawyer, and with utter disregard of the great fact that what was opened was not merely the door of opportunity, but the door of privilege. Our predecessors have had their eyes fastened upon the individual young man, struggling to get a start in life and entrance into an honorable profession, with the commendable interest and sympathy which such a sight always excites in an American, but they have been blind to the public whose interest is not less great than that of the young man, though, unfortunately, not so dramatically exhibited. This great mistake has been glorified by an occasional happy accident, like the rising of a Patrick Henry or Abraham Lincoln, or of some lesser local light. But unfortunately, for every Lincoln who, admitted to the bar untrained and unfit, afterwards prepared himself for a great public service, there were thousands of others who remained untrained and unfit, and these it is, the great mass of the unprepared, who have given our bar its low degree of efficiency, and brought the law into disrepute.

It is the public which must act in self-protection. Just as it has declared that those who offer their services in the practice of medicine must first be fit to render services that shall be valuable and not dan-



gerous, so it must require of those who hold themselves out to render services in connection with the administration of the law that they shall be fitly trained for such service. These requirements should be so made as to eliminate the two great defects already specified: a low moral tone and inadequate knowledge of the science of the law. The first may be done away with by limiting the membership of the legal profession to liberally educated men—to those who have won that culture that comes from the study of the humanities, history and general literature—for at least two years in a collegiate institution. It is true that many highly educated men are knaves the more dangerous for their learning, and it is also true that there are many men of much learning who develop no talent for the law, and are soon outstripped by their uncultured competitors who have natural aptitude for the profession, but it is none the less true that, as a rule, among cultured men one finds a higher moral tone, loftier ideals and quicker perception of civic duty than among the uncultured strugglers along the short cuts to professional advancement. If only men so educated could become candidates for admission to the bar, as is practically the case in England, the public would be assured of the needed raising of the average moral tone among those admitted to serve as priests in the temple of justice. Nor would such a preliminary requirement operate as an injustice, or real harshness, to that person upon whom orators at bar association meetings so fondly cast their eloquent eyes, the poor young man, always a possible Marshall or Lincoln, who lacking a wealthy father, or other good fortune, has been unable to obtain a college education. The Lincoln of our day would easily win his college education, and render richer, fuller service to the public because of it; and so would every young man whose fiber was such as to qualify him for valuable service in the highly competitive profession of the law. Only those who ought not enter the profession would be barred by such a preliminary requirement, and for them a refusal of admission would be a kindness, saving them from falling into the low estate of the legal parasite, and turning them, perhaps into some other useful service. And for the public there would certainly be no loss, for if any one economic fact is settled beyond dispute it is that the country needs not more but better lawyers.

Once admitted to pupilage for the bar, society should see to it that the instruction of the coming lawyer is thorough and scientific. The body of our law, already tremendous and vastly complex, grows yearly more huge and involved. No man, even in a life-time, could master and store away in memory all of its infinite detail. The only key to the perplexing mass lies in a thorough knowledge of the historical lines along which have developed the great fundamental doctrines of our law, and the mastery of the subtle processes of reasoning by which the courts have progressively determined the application of these great

principles to the constantly changing social and commercial conditions of successive generations. Therefore, the law student must study the historical development of the law and receive careful training in the reasoning of the courts. He must be taught to compare and distinguish cases, and to weigh judicial reasons with a nicety that will bring him to detect fallacies whether in cases already overruled, or in those which still stand athwart the line of the right growth of our jurisprudence. To a man so trained rules of law become not the tools of his craft, but merely more or less accurate statements of the results of the operation of certain great principles of truth and law upon certain social or industrial conditions. Therefore, he will not think it imperatively necessary that the same results must obtain when he perceives that the conditions upon which those principles are acting have changed.

But such legal training, which is a very different thing from coaching up a bright young man, to pass some particular bar examination, requires much time and great labor. It requires much reading, more thought, and still more time for digestion and assimilation. It is a process which is psychologically not capable of being hurried. In our best law schools, which command the best facilities for instruction, and most skillful teachers, it is considered that three years of uninterrupted study must be required of the student in order to enable him to secure training of this character and extent. And this judgment has been approved in the generally prevailing rule that requires three years of legal study as a prerequisite to admission to the bar.

In order, then, to secure for the public efficient service from those licensed to take part in the administration of justice, the State should require as preliminary to entrance upon the study of law, a liberal education, and before admission to the bar there should be required such a period of study as, in view of the attention given to that study, and other circumstances existing, will reasonably assure thorough and scientific instruction. In some of the more progressive States some legislation looking to these ends has been enacted, but how does the matter stand in the District of Columbia? The candidate for admission to the learned profession of the law need have had no preliminary education whatever, and while he is required to have studied law three years or three sessions, the rule does not specify how much time or attention he must have given to the law during those three years. Nor must anyone suppose that the bar examination in this or any other State prohibits meagre and superficial work during the three-year period; for a skillful coach, with the former examinations before him, can prepare any reasonably bright young man for passing the bar examination within a few months.

Moreover, the District incorporation laws are so loose that any group of men, without endowment, equipment or responsibility to any other



person or persons, can start up an incorporated law school, and without control or even supervision from the District government, can grant standard degrees for a parrot's song. And so great in Washington, because of the limited time of the average student, is the love of cheap degrees and of short cuts to knowledge, that such a school, if some of the teachers prove good instructors, may make much money for its promoters. Surely this must be remedied, and degree-granting institutions subjected to some sort of supervision.

Turning now to the legal instruction actually carried on in the District, let us see how it is being done, and how well the law schools are responding to the call of the times for better training for the lawyers of the future in fitting them for adequate public service. We will first look to the statistics compiled by the Commissioner of Education and note the tale they tell. During the sessions 1907-1908 the District of Columbia, with 1251 students in attendance upon its law schools, stood fourth in respect to the number of law students, but in respect to the number of graduates it stood second, the great State of New York alone professing to have fitted more young men for the practice of law. The figures are still more striking when reduced to percentages. In New York 18.7 per cent of the student body were graduated; in Illinois 17.2 per cent; in Massachusetts 23.4 per cent, and in the District of Columbia 30 per cent. These percentages are the more significant when we note that in each of the three other States mentioned are strong law schools in which large numbers of students devote their entire time and energy to the study of law, while in the District all of the schools but two were night schools, in which teachers and students devoted the fag ends of their days to educational work, and that one, the George Washington University Law School, had not then, as to the graduates of that year, abandoned the practice of reckoning a half day to be the same as a whole day. Among the District law schools little is done to insure a reasonably liberal education as preliminary to the professional studies of the candidates for the bar. As stated before, the rule of court makes no requirement whatever as to preliminary education, and the best law schools require no more than the meagre training required by a high school course, while one law school, at least, will admit to its classes any one who has the price and who can spell.

Nor does the professional instruction given in the District law schools when inspected afford any greater ground for self-congratulation. One school, largely attended, grants the standard LL.B. degree after two sessions of eight months each, with, seemingly, only six hours of required work, and that done wholly at night. Thus the standard degree is awarded for an amount of work considerably less than is required of a first-year class at Harvard or Columbia. For thinness of instruction

this school seems to be equalled by only one other in the United States.

All other law schools in the District of Columbia nominally require three years for graduation, but saving those of the Catholic University, which is very small, and the George Washington University, all of them confine their work to the night time, their courses are thin, as compared with those of the great law schools of the country, and the standard of work done by students who can have but scant time for study after the night lectures that have followed a more or less laborious day, is necessarily low, and so regarded throughout the country. Of the six District schools, only one complies with the requirements of the Association of American Law Schools, and only one with the standards set by the Department of Education of the State of New York. We are all familiar with the plea, made at divers times and places, that these night students because of their superior maturity, experience and ability, and their more steadfast purpose, can accomplish as much in the few night hours left to them as can their more fortunate but less purposeful fellows in the day schools. But that position cannot be defended, as anyone whose experience has extended to both classes of students knows only too well. It is quite true that the average ability of the students in the Washington law schools is unusually high. Many of them will become distinguished lawyers, as have many of their predecessors. In the class-room one is surprised to note the excellent work done by some of these young men, who are employed all day, in the few hours left to them, but the results obtained by the best of them cannot compare with those won by the students who spend their days as well as their nights with their law books. The standard of night work can never be other than relatively low unless the fact that it is half-time work be kept constantly in view by comparison with full-time work. The night student may then be held up strictly to the standard set by his unencumbered brother, and encouraged to make such progress toward the goal of professional equipment as his limited time will permit. Under such conditions, night schools and night teaching may prove a real blessing in providing opportunity to the ambitious young man of limited means to fit himself for higher service to society, but instruction during the remnant night hours that masquerades as the equivalent of that acquired during the whole of the day misleads the students and injures the public.

An earnest effort has been made by the George Washington University Law School to meet the peculiar local conditions existing in the District, and so to improve the methods and standards of work done by teachers and students as to provide for the District legal instruction substantially equal in character and extent to that given in the best law schools in the country, and further to make such a course available to the many able and ambitious young men in the various departments of



government service who come to Washington for the purpose of securing a legal education and are worthy of every aid and encouragement.

In February, 1906, at a time when the Law School was by far the most largely attended in the District, and its classes, then confined to the late afternoon, after office hours, steadily increasing in size, its faculty, concluding that it was rather pandering to local conditions than responding to the real need for sound legal training, deliberately decided to raise the standards of work and graduation, and ultimately to increase the admission requirements to two years of college work. The work required for the LL.B. degree was fixed at the amount that could be accomplished in three years by a student giving his whole time and energy to his studies. Classes were divided into two sections, one sitting in the forenoon and the other in the late afternoon, to accommodate those students employed in the Government service, for any school that should fail to make the best possible provision for this large and interesting class of students would be false not only in its opportunity but to its plain duty. The afternoon classes were so arranged that students under employment could, if able and diligent, complete the course required for the LL.B. degree in four years. This step was taken with full knowledge that it must result in decreased attendance and curtailed revenue, since few of the employed students would at first understand that the course was made longer and more laborious in their interest, or be willing to spend four years in securing an LL.B. degree, when a degree having the same general appearance could be had in other schools for three or even two years of less severe work. The expected happened. The entering class of 1906-1907 numbered but 68, as compared with 173 the preceding year. In 1907-1908 the entering class numbered only 73, but with the opening of the session of 1908-1909 the young men had begun to understand and the entering class increased to more than a hundred. The first-year class of this session, after the rejection of nearly forty applicants not fitly prepared, already numbers over one hundred, and will rise considerably above that figure. This experience shows that sound educational policies will appeal to the young men who congregate in Washington as well as to young men in other parts of the country, and that the bettering of the educational standing of the District would be easily accomplished if all the other law schools would but unite in the effort.

Outside of this District the policy of requiring four years of study for a degree in night schools is slowly winning its way to general acceptance. In 1907 the Temple Law School of Philadelphia, a night school, extended its course to four years, and in the following year the University of Minnesota Law School made a similar extension of its night course, the day course remaining three years. In 1907 the American Bar Association passed a resolution in favor of extending night school courses to four years, and at the last meeting of the Association of

American Law Schools a resolution was passed prohibiting any of its members from granting degrees for less than four years of night work. After a time the rules for admission to the bar will require that study in a night school shall extend to four years. But let us hope that before that time the District law schools will of their own motion have done with the mistake of regarding three sessions spent in a night school as constituting three years given to the study of law, or as affording opportunity for scientific training in the law adequate to the needs of the present time.

What then is the conclusion of the whole matter? We are forced to admit that Washington is far from being the greatest center of legal learning in the United States; that the shades of night have fallen darkly upon legal education in the District, and that its crowded law schools, with the exception of one or two, have steadily regarded the main chance of accumulating tuition fees and turned a deaf ear to the great cry of the public for better trained lawyers rather than more lawyers. Congress, as the legislature of the District, should interpose in the interest of the public. The incorporation laws should be revised so that the creation of corporations for carrying on any form of higher education shall be carefully restricted to responsible bodies of men, and subjected to some supervision in the conduct of their work, to avoid frauds upon the public. Further, no student should be allowed to enter upon the study of law unless he possesses a degree from a reputable college, or until he shall have secured from the Department of Education of the District a certificate showing that he has passed a preliminary examination covering at least as much as a four-year high school course, as is now done in New York and Pennsylvania and other States. Thirdly, before being admitted to the examination for admission to the bar the candidate should be required to have devoted three years to study in a regular day law school, or four years in a night school or office.

Such regulations would doubtless cut down the attendance of students in our law schools and decrease their present revenues, as has happened with many one-time crowded and profitable medical schools. But the business of the law school is one powerfully affected with a public interest, and it has no right to make money at the expense of the public. And surely no one will say that a decrease in the number of lawyers annually turned loose upon the public will be a public loss, nor will he say that the turning of those unfit for the profession of the law into other channels in which they may render useful service is anything but a boon to the young men thus temporarily disappointed, but permanently benefited.

Permit me, in closing, to express the earnest hope that the Law School of the George Washington University may never cease to place its duty to the public above its love of tuition fees, and may always measure its



success by the character of training given rather than by the numbers that crowd into its class rooms.

At the conclusion of the address the following students received their diplomas from the hands of the President of the University:

James Houston Shrader, District of Columbia, the degree of Bachelor of Arts.

Abner Beebe Dunn, Pennsylvania, the degree of Doctor of Medicine.

Antonio Cornelius Gonzalez, Jr., New York, the degree of Bachelor of Laws.

Frank Schley Hemmick, District of Columbia, the degree of Bachelor of Laws, with distinction.

John Adlum Sterrett, District of Columbia, the degree of Master of Science.

President Needham, in bringing the exercises to a close, expressed the great gratification he felt in announcing that the registration had reached the large figure of 1255, an increase over the number registered at the same period last year.

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Since its organization in 1821, the University has conferred 7298 degrees upon 5841 persons.

The Secretary of the General Alumni Association, whose office is at the University, endeavors to keep a list of the addresses of all Alumni. His catalogue now contains the addresses of about 4000 graduates. It is known that about 1200 are dead, and information is lacking in regard to the others. All Alumni are urged to keep the Secretary informed of any change of address or occupation, and to supply information in regard to their fellow Alumni.



**REPORT OF REGISTRATION, OCTOBER 27, 1909.**

Graduate Studies .....	64
College of Arts and Sciences.....	275
College of Engineering.....	171
College of the Political Sciences.....	52
Teachers' College .....	80
Division of Architecture.....	57
Department of Law.....	286
Department of Medicine.....	100
Department of Dentistry.....	26
College of Pharmacy.....	90
College of Veterinary Medicine.....	54
Total .....	1255

**GENERAL NOTES.**

Professor Julian Charles Monnet, Professor of Law in the Law Department of the University, resigned during the summer to accept the Dean-ship of the Law Department of the University of Oklahoma.

The Dental Department of the University has been reorganized and has for its teaching staff a Dental Faculty separate from the Medical Faculty. Courses are offered in the afternoon and evening.

During the year 1908-1909 there were added to the Library 1447 books; the total number of volumes at present in the Library of the University is 40,376.

In the March, 1909, Bulletin, were given the terms of the bill introduced into the Senate of the United States to secure the benefit of the "Morrill Act" to the District of Columbia and to the George Washington University. It was stated that this bill was passed in the Senate by unanimous vote on March 3, 1909, too late, however, to be reached in the House. The Bill will be introduced at the next session of Congress, December, 1909. Encouragement and assistance have already been given by many of the Alumni of the University and every alumnus is now urged to help in securing at the coming session of Congress the benefit of this Act for the District and for the University. The District is entitled to the appropriation given under the terms of the "Morrill Act," and the College of Engineering and Mechanic Arts of the George Washington University, which is doing the work for which similar institutions in all the States and territories receive the appropriation, will be enabled by the receipt of it to enlarge its equipment and increase its usefulness.

The Annual Business Meeting of the General Alumni Association will be held in November.

An interesting and excellent example of the inspirational influence exerted by a fraternity for scholastic excellence is the very pleasing custom in Chi Omega whereby a prize loving cup is each year awarded to that chapter which has throughout the year attained to the highest average standing. The cup inaugurating this custom was offered last year by the Supreme Governing Council of the fraternity and will become the permanent possession of the chapter only when it has been won by that chapter for three successive years. The announcement that the cup in this, the inceptional year of the custom has been awarded to the Phi Alpha Chapter, located at the George Washington University, has been very pleasing to the Faculty and to the many friends of Chi Omega.





VOLUME VIII

NUMBER 4

# The George Washington University Bulletin

DECEMBER, 1909



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under Act of Congress of July 16th, 1894





# The George Washington University

## BULLETIN

VOL. VIII

DECEMBER, 1909

No. 4

### BOARD OF TRUSTEES—ALUMNI REPRESENTATION.

At a meeting of the Board of Trustees of the University held May 6, 1909, the following resolutions were adopted:

*Resolved*, That on and after the first day of June, 1909, the number of trustees of this University shall be twenty-five, four of whom shall be the Secretary of Agriculture, the Secretary of the Interior, the Secretary of Commerce and Labor, and the Commissioner of Education, and the remaining twenty-one shall be divided into three classes of seven in each class, the terms upon which the first class shall serve to expire in June, 1910; the second class in June, 1911; the third class in June, 1912; and thereafter the twenty-one trustees shall be elected for three years, the term of one class to expire annually—provided the term of each trustee shall continue until his successor is elected and qualified. Two trustees in each of the classes above named shall be nominated by the Alumni of said University; the two names at each election receiving the highest number of votes shall be elected by the trustees for the term of three years; the organization of the Alumni, and the manner of voting and certifying the nominations to be approved by the Board of Trustees.

*Resolved*, That a special committee consisting of the Chairman, Mr. Noyes, Mr. Larner, Mr. Edson, and Mr. Perkins be appointed to nominate trustees for the election in June, and to confer with the Alumni Association regarding the general Alumni organization, method by which the Alumni shall vote for trustees, and the certification of the results thereof to the Board.

By authority of the Alumni Association Mr. Aldis B. Browne, Mr. A. S. Worthington and Mr. C. C. Calhoun were appointed a committee from the Alumni to confer with the committee of the Trustees and formulate plans for the election of Alumni trustees.

At the request of the Board of Trustees, the Executive Committee of the Alumni will submit to the Board at its January meeting a list of Alumni from which selections may be made to fill vacancies now existing in the Board.



## ANNUAL MEETING OF THE ALUMNI.

The General Alumni Association held its annual business meeting at the University on the evening of November 30.

President E. C. Brandenburg submitted a report which is printed in this Bulletin.

Secretary H. L. Hodgkins detailed the methods used in keeping addresses of the Alumni, and stated that his mailing list now contained about four thousand names. He also stated that there had been compiled during the year a card catalogue of nearly twenty thousand cards, containing the names and other information regarding all persons who had been connected with the University as students or officers since its foundation in 1821.

Treasurer John B. Lerner's report showed a cash balance of \$264.81 and investments in stocks and bonds of \$3071.25.

The following were elected as officers for the year:

*President:* ALDIS B. BROWNE.

*Vice-Presidents:* FRANK L. AVERILL, HENRY P. BLAIR, JOHN C. HEALD, STEPHEN E. KRAMER, HANSON T. A. LEMON, M.D., PRESTON B. RAY.

*Secretary:* HOWARD L. HODGKINS.

*Treasurer:* JOHN B. LARNER.

The Executive Committee of the Alumni consists of the officers and the following additional members appointed by President Browne: F. W. ALBERT, G. C. AUKAM, ALLAN DAVIS, HARRY C. DAVIS, H. B. DEALE, M.D., REV. H. G. ENGLAND, J. G. HASKELL, D.D.S., H. W. HOUGHTON, PH.D., LOUIS MACKALL, M.D., F. D. MCKENNEY, N. WILLIS POMEROY, D.D.S., ANDREW WILSON, PH.D.

At the conclusion of the meeting a buffet luncheon was served to the members and guests.

President Brandenburg's report is as follows:

WASHINGTON, D. C., November 30, 1909.

*To the Alumni Association, George Washington University.*

GENTLEMEN: As this association during the past two years which I have had the honor and pleasure of representing as President, has deemed it wise to hold an annual banquet instead of a regular business meeting, I have been relieved from the necessity of preparing an annual report. Since my incumbency of the office, eventful things have happened in the history of our Alma Mater. The Van Ness property intended for the future home of our University has been sold. Men of business ability and standing, upon whom we have leaned for advice and counsel, as well as many of the graduates of the University, felt that while in many respects this property was desirable as the seat of a great University, still on the other hand grave fears were entertained for the health of the student body as well as of the faculty in the event

that dormitories should be located upon the property. For years the Alumni have felt that it was impossible to foster and strengthen the ties of fellowship and loyalty to the institution such as are found in all universities in the absence of an ample campus and accommodations in the way of dormitories for the student body. Therefore, to locate these dormitories in such close proximity to the Potomac, in view of the fact that the surrounding land was at one time to a large extent a marsh, near which one of the largest sewers emptied, created a fear that the health of the student body might perhaps be jeopardized. Acting, therefore, under the urgent demand of many adherents of the University, this property was sold at what seems to be a good figure, considering the present market value of other land in the immediate vicinity.

As you well know, thereafter strenuous efforts were made to locate the University on what is known as Oaklawn or Dean property—a most commanding site, and one as to which there could have been no possible fear as to healthfulness or desirability. While this site was not as large as might be desired, still containing, as it did, in the neighborhood of nine acres with more or less vacant land to the east and others at no great distance for an athletic field, it appeared to the authorities the most desirable of the many sites in contemplation. While an option had been acquired on this property at a sum of \$800,000, out of which sum a building was to have been erected of the value of approximately \$200,000 in memory of one of the former owners, still the executive authorities of the University felt that the price should be materially reduced and to that end negotiations were taken, but proved unsuccessful. In view of this fact, other sites were carefully examined in the confident belief and expectation that property equally desirable might be obtained at a less price. While some favored a part of the Woodly tract, others favored south of the Capitol, and still others the head of 16th street and others the Barber tract at the head of 14th street. For one reason or another all of these tracts were finally abandoned, and negotiations resumed to secure the Oaklawn property, only to find that the owners declined to sell to the University at any price. Whatever else may have occurred during the past two years, this appears to have been the greatest blow the University could possibly have received. Let us urge as a body the authorities of the University to exert every possible effort toward securing a site readily accessible to the center of business which shall command sufficient ground for its buildings and at the same time provide ample campus as well as athletic grounds of reasonable proportions. To this end let every alumnus of this institution put his shoulder to the wheel and aid the authorities in such an undertaking and when once obtained, pledge his loyal support both by way of his financial assistance as well as by obtaining the support of intelligent men and women of means, who out of their abundance will be sufficiently munificent and patriotic as to lend their assist-



ance in the upbuilding of a monument to their memory which will long outlive this generation.

### GROWTH OF UNIVERSITY.

So far as the instruction given at the University is concerned, it is to-day the equal of that given by any institution in the land, and we except none. Our faculty is composed of men of great learning and constituting as they do men whose profession is that of teaching as well as those in the active walks of life, both in medicine, law, architecture, engineering and the like, the student body of this institution secure a breadth of instruction both of a theoretical and practical character that is unsurpassed. While we believe in the professional educator and instructor, at the same time we confidently believe that the ideal course in education is one which comprehends instruction from a practical as well as theoretical standpoint, and the former is nowhere better obtained than from those actively engaged in those walks of life. In this, the University excels. On our faculties have appeared such names as Harlan, Brewer and Cox in law; W. W. Johnston, King, Yarrow and DeSchweinitz in medicine; Munroe in chemistry and Merrill in geology. Most of these men are still living and active forces in the teaching life of the University. With scores of others of equal standing in their respective spheres of life, whose names might be mentioned, to which should be added the professional teachers of great reputation and learning, we have an ideal combination, and a teaching staff unsurpassed by any in the land.

The University is not at a standstill, but the growth has been gradual. The following shows the registration of the University at the date of this report, and is most gratifying:

### STATEMENT OF REGISTRATION.

	1900. November 22
Graduate Studies .....	69
College of Arts and Sciences.....	284
College of Engineering .....	171
College of the Political Sciences.....	52
Teachers College .....	81
Division of Architecture.....	58
Department of Law.....	302
Department of Medicine.....	113
Department of Dentistry.....	26
College of Pharmacy.....	87
Veterinary College .....	51
	<hr/>
	1,294

## POLICY AS TO ADMINISTRATION.

It would be idle for us to ignore the fact that sometime since there was more or less internal disagreement in the administration of the affairs of the University which has been kept alive by friends of the various parties. It would be eminently unfitting for us to discuss the merits or demerits of this controversy. That it has to an extent hurt our Alma Mater cannot be denied. While the registration this year is slightly less than that of the past year there is no reason why it should not have been from three to five hundred in excess of what it is, but for this disagreement and the attendant controversy. While the controversy raged warm, instead of proving beneficial to any one, the University has been the sufferer and has been ground between the inner and the nether mill-stones. Let the Alumni of this University call a halt and discourage all public discussion, in the press and at the clubs, of disagreements between faculty and administration, if any such there now be and let us to a man do all within our power to strengthen and upbuild the institution, as controversies of this character must of necessity militate against the best interests of any institution, whether it be educational or commercial.

## CARNEGIE FOUNDATION.

It was with considerable pride that we noted the enrollment of our University as a beneficiary under the munificent endowment of Andrew Carnegie in the interest of professors who had served faithfully and well for more than a quarter of a century. While it was with pride that we looked upon this recognition, this was enhanced by a realization of the fact that the courses of instruction and the administration of our affairs had been recognized as being upon a par with those great universities with vast endowments and opportunities. This recognition on the part of the executive board of the foundation acted as a stimulus to renewed energy and strengthened the administration in its resolve to maintain the high standard which it had adopted as necessary for its recognition. While it is not the pension paid to members of the faculty after a quarter of a century of faithful service that appealed to us, the fact that we were recognized as being upon an equality with these other institutions was considered of preeminent value. It is with the greatest regret that we are compelled to record the fact that during the heat of an internal controversy which occurred some months since in our University, the Board controlling and managing this foundation saw fit to remove us from the list of those entitled to this recognition. Coming at the time it did, we regret to be forced to believe that this action was largely the outgrowth of this disagreement and without the mature consideration which doubtless does and should control this body



of intelligent men in reaching their conclusions. Far better had it been that we were never recognized, than to have been recognized, and because of some disagreement as to policy, to have been removed. Let us as a body respectfully protest and petition the Executive Board of the Foundation to give us such a fair and impartial hearing as will enable us to demonstrate that we are entitled to the recognition which has been taken from us. It cannot be gainsaid that the work done at our institution is the equal of that done in any other, and that the standard of admission is upheld to the limit is borne out by the fact that in the law department alone during the present session 44 applicants were refused admission because of the lack of educational qualifications, much as we needed their tuition fees to aid in the work before the institution. Let us hope that this Board will reconsider their action and place us where we are entitled to be.

#### ATHLETICS.

During the past few years our University has won great credit upon the athletic field, notwithstanding the serious disadvantages under which the student body has been obliged to exercise, resorting to the remarkable spectacle of football practice by electric light, in order to secure that skill and muscle which are so necessary to carry the pig-skin to the goal. Our teams have met with remarkable success, whether it be at the target, the track or on the gridiron. At football, its strength and ability is now recognized by the best universities and the teams with which we have been obliged to contend have been of the very strongest. With Carlisle, Bucknell, Washington and Lee, V. P. L., the Maryland Agricultural College and other teams of like ability and standing, we have made a showing of which we may well be proud. The success of our teams in the past bodes no good to the institutions willing to meet us upon the field after we have once furnished our student body such an athletic field as will enable them to take the proper and necessary exercise and practice.

Other branches in athletics have met with equal success and we bespeak for our various organizations the hearty support and co-operation of every alumnus of this institution. Athletics stimulates enthusiasm, enthusiasm begets loyalty, loyalty spells support to your Alma Mater, which to-day needs men and women with true red corpuscles coursing through their veins, to aid in upbuilding the new George Washington University.

#### MORRILL ACTS.

For many years there have been upon the statute books of our Nation, laws granting an annual appropriation to the various States and Territories for the purpose of lending aid to at least one college in such

division for the purpose of teaching such branches of learning as relate to agriculture and mechanical arts, in order to promote liberal education of the industrial classes in the several industries and professions of life. Owing to the existing statute, the District of Columbia is excluded from partaking of this provision of the law, for no other reason doubtless than that we have no representation in Congress whereby our rights may be safeguarded. True it is that to a certain extent the President of these United States is watchful of the interests of the affairs of this District, still in the demands made upon him by the nation at large and the further fact that it is impossible for him to follow to the floors of Congress his recommendations, in many respects the interests of the District are overlooked and forgotten by the members of Congress in the zeal to protect and provide for the interests of their constituents at home. There is absolutely no reason that can be advanced why the advantages of these laws should not be extended to the District of Columbia, and if they are so extended to the District, then the George Washington University would be the recipient of the annual appropriation provided. While it is true that under these laws as they now stand we are inhibited from receiving this appropriation, it is nevertheless the more incumbent upon the many thousands of graduates and Alumni of this institution to exert most strenuous efforts in behalf of their Alma Mater with their local Senators and Representatives to the end that the law may be amended and our institution partake of its benefits. I, therefore, bespeak the personal efforts of every alumnus of this institution, whether he be located in Maine on the east, the State of Oregon on the west, Texas on the South, or Minnesota on the north. If every alumnus of this institution with the influence which he possesses, will exert himself in the next three months toward securing an amendment of the law, the University will be placed upon a sound footing and its future absolutely assured. The Senate of the United States, realizing the injustice to this District under the law as it now stands, on the 3d day of March, 1909, by a unanimous vote passed a bill giving the District of Columbia equal rights under the Morrill Acts with the other States and Territories. Owing to the lateness of the session the House of Representatives did not have an opportunity to consider the bill. A bill has already been introduced in the present Congress, seeking the same purpose, and this bill needs your hearty support.

#### TRUSTEES.

It is gratifying to report that the Board of Trustees of the University on May 6, 1909, adopted a resolution increasing the number of trustees and authorizing the Alumni to nominate each year two persons to serve



upon that Board, each trustee holding his office for a term of three years. This response to the wish of many of the Alumni is more than gratifying and the thanks of this association are clearly due to the authorities. The method of nomination is to be hereafter determined.

With this brief résumé of past events and an appeal for the earnest and hearty support of every alumnus for the welfare of George Washington University, and its administration, I surrender the gavel of authority to my successor.

Respectfully submitted,

EDWIN C. BRANDENBURG,

*President.*

#### THE UNIVERSITY CALENDAR.

The President's Council, at the beginning of the present year, authorized the publication and posting of a University Calendar, in which should appear all notices of general University interest. This printed calendar has been posted every Monday morning on the bulletin boards in all departments of the University. All notices for publication should be sent to the office of the Secretary of the University on or before Saturday preceding the week of publication.

#### COLUMBIAN WOMEN.

The Columbian Women have been actively interested in increasing the Loan Scholarship Fund, one hundred dollars per year. This fund is used for scholarships for young women in the University. An annual banquet for women alumnæ of the University has been determined upon as a result of the successful first banquet last year. In many other ways the active influence of the Columbian Women has been felt in University affairs, such as the daily tea at the Women's Building, and the pleasant work of arranging social affairs, musicales, etc., to assist in promoting the social side of the life of our young women undergraduates in the University. The officers for 1909-1910 are as follows:

*President:* MRS. JOHN PAUL EARNEST.

*First Vice-President:* MRS. GEORGE OTIS SMITH.

*Second Vice-President:* MRS. G. P. MERRILL.

*Treasurer:* MISS ANNA S. HAZELTON.

*Recording Secretary:* MISS E. MARGARET WHITE.

*Corresponding Secretary:* MISS M. AGNES CLANCY.

*Historian:* MISS JULIA V. MCCORD.

*Past President:* MRS. F. E. EDGINGTON.

### CLOSER RELATIONS BETWEEN THE FACULTY AND THE STUDENT BODY.

A plan to promote closer relations between the faculty and the students has been put into operation in the several departments of the University. This plan calls for regular periods of conference between the Deans representing the faculty and the presidents of various classes in each department representing the students, with the view of enabling the faculty to communicate more readily with the students and the students to bring their interests more quickly to the attention of the faculty. A forum is thus afforded for the practical discussion of many important questions arising between the faculty and the students.

### COMMITTEE ON EMPLOYMENT OF STUDENTS.

The work of the Student Employment Committee has been transferred to the office of the Secretary of the University. Since October 1 the Secretary has received and filed 30 applications from students for employment and through the agency of the committee a number of places have been secured.

Application blanks are furnished to students who desire employment, in which the kind of employment, the hours that can be given to the work, and the kind of work that can be done, may be stated. The Secretary also receives and files letters from those who desire to employ students. Care is taken to recommend men of known ability and fitness.

### ATHLETICS.

Among the various flourishing activities of the University, the successful work of the athletic team should be noted. Without campus, athletic field, and gymnasium owned by the University, the student body is seriously handicapped in athletics. Nevertheless, through the exertions of the Athletic Council and the Athletic Association, the fine and determined work of the football team, the track, and the rifle team, the season has been a successful one. The University has aided by financial assistance rendered to the Athletic Council in its administration of the football team, the track team, and rifle team. Although the football team of the present year did not have the undeviating success of last year's team, its work is deserving of commendation. The rifle team in the last rifle match held came out victorious over all competing teams. The rules of eligibility have been enforced in the case of all members of University teams. The track meet will come off in February and there is decided interest in the contests.

With regard to football concerning which, owing to many fatalities of the past season, great public agitation has been aroused, the President's Council of the University has gone upon record as desirous in every way in its power of aiding to remove the "manifest dangers of the



game," and its delegate to the meeting of the Intercollegiate Athletic Association has been instructed to this effect.

#### STUDENT RELIGIOUS ORGANIZATIONS.

One of the tower rooms in the Administration Building has been set apart for the use of the students' Y. M. C. A. It is comfortably furnished, supplied with periodicals and stationery, and, in addition to serving as the headquarters of the association and a place for its meetings is open to all men in the University. By thus providing a common rallying point the association helps to bring together members of the different departments and so to promote the solidarity of the student body. Similar provision has been made for the Y. W. C. A. in the Woman's Building. The two associations have been put in charge of one chapel service of each week, and they hold a joint meeting on the first Wednesday of each month. These joint meetings have been addressed by prominent ministers and other religious workers, and have drawn a large attendance.

At the opening of the college year the Y. M. C. A. rendered a valuable service by preparing an excellent Students' Handbook, which contains information as to University rules and customs, location of libraries and classrooms, office hours, student organizations, etc.

The annual banquets of the University associations have become established features of the academic year, and arrangements are being made for a Sunday afternoon religious mass meeting for the men of the University, to be held early in the second semester.

The officers of the Y. M. C. A. are: President, DAVID R. COVELL; Vice-Presidents, JAMES W. BERRY and PRESCOTT TUCKER; Secretary, CHARLES W. MARSH, and Treasurer, JOHN FLEMING; of the Y. W. C. A.: President, MISS E. M. WELLER; Vice-President, MISS HELEN SUMMY; Secretary, MISS ESTHER FOSTER; Treasurer, MISS LINDA L. CLIFT.

#### THE UNIVERSITY HOSPITAL.

The hospital is an integral part of the educational establishment of the University, and though its wards are a charity to the poor, hundreds of whom yearly find in them the kindly nursing and skillful care that brings them back to health, the Hospital does not so much appeal to the charitably benevolent because of its ministrations to these unfortunates as it does to those who believe that the education and training of men and women for careers of usefulness and independence is the greatest and most effective of philanthropies. In accordance with the medical ordinance passed by the Board of Trustees last May the hospital has been more completely correlated with the Medical College. All the professors teaching clinical branches have been made chiefs of

their clinics in the hospital, thus making the clinical facilities of the hospital directly available for teaching.

Improvements of marked importance during the present year have been made in the facilities of the hospital by the renovation and thorough equipment of the operating room and by the installation of the latest improved type of X-Ray apparatus.

Along with the development of medicine and the education of the physician, there has also developed the necessity of the trained nurse as an assistant in the care and treatment of the graver diseases and casualties and this function the Hospital also discharges in its School for Nurses.

Every hospital, worthy of its mission, gives to its patients more than it receives back—it is therefore always a beggar of beggars—the University Hospital is no exception to the rule. It stands in daily need of the assistance of the charitably disposed givers. It does not, however, ask to be helped altogether—it is not itself helpless. It endeavors largely by its own efforts and economies to support itself.

To the interest and generous offices of its Board of Lady Managers, to their devotion of time, effort, patience, and charity the Hospital is most largely indebted for the making up of its fiscal deficiencies. It is also thankful to its many other friends for kindly offices and donations.

The total capacity of the Hospital is 125, with 40 rooms for the reception and treatment of private cases. The charity wards of the Hospital comprise two wards of twelve beds each for the general medical and surgical diseases of women, a like number for men, one ward of eight beds for maternity cases, a nursery of twelve cribs and a children's ward of eight beds. It should not be forgotten that of the total work done by the Hospital over 13 per cent is charity and for which the Hospital receives no compensation whatever. In addition to this charity work done in the wards, during the past year over 1000 cases received free treatment in the Dispensary attached to the Hospital. It would be gratifying if a knowledge of this volume of charitable work done in the institution would interest those who are able to assist the work financially.

#### BOARD OF LADY MANAGERS.

OFFICERS 1909-1910.

*President:* MRS. EDWARD STEVENS.

*First Vice-President:* MRS. E. B. ROSA.

*Second Vice-President:* MRS. OSCAR A. MECHLIN.

*Corresponding Secretary:* MRS. W. R. VANCE.

*Recording Secretary:* MRS. L. H. REICHELDERFER.

*Treasurer:* MRS. S. E. LEWIS.



*Present Members.*

Mrs. W. E. ANDREWS.	Mrs. ROBERT MILLER.
" CHARLES H. ACKERT.	" CHARLES E. MUNROE.
" THOMAS H. ANDERSON.	" CHARLES W. NEEDHAM.
" CHARLES J. BELL.	Miss KATE DEAN OWEN.
" WILLIAM H. BALDWIN.	Mrs. OLIVER PAGAN.
" WILLIAM C. BORDEN.	" L. E. PAYSON.
" H. C. BROWNING.	" ROBERT PORTNER.
" EDWIN C. BRANDENBURG.	" H. A. PRESSEY.
" A. G. BENTLEY.	" G. L. RAYMOND.
Miss ELIZABETH BOYCE.	" L. H. REICHELDERFER.
Mrs. MITCHELL CARROLL.	" CHARLES W. RICHARDSON.
" WILLIAM E. CLARK.	" MASON N. RICHARDSON.
" JEREMIAH COLLINS.	" W. F. ROBERTS.
" WILLIAM VAN ZANDT COX.	" E. B. ROSA.
" JOSEPH H. CRANFORD.	" K. B. SAWYER.
" E. H. CORSON.	" E. G. SEIBERT.
" CHARLES W. FAIRFAX.	" JOHN CRAYKE SIMPSON.
" DANIEL S. FOSTER.	" D. K. SHUTE.
" WALTER HARBAN.	" GEORGE OTIS SMITH.
" FRANK J. HEIBERGER.	" MIDDLETON SMITH.
" CHRISTIAN HEURICH.	" JAMES H. SPALDING.
" WILLIAM H. HOEKE.	" EDWARD STEVENS.
" A. F. A. KING.	" W. MCKAY STOWELL.
" MARTIN KNAPP.	" H. C. THOMPSON.
" SAMUEL LEMLY.	" W. R. VANCE.
" HANSON T. A. LEMON.	" HERMAN WALBRIDGE.
" S. E. LEWIS.	" BATES WARREN.
" D. P. MANNIX.	" WILLIAM WEAVER.
" OSCAR A. M. MCKIMMIE.	" S. G. WINSLOW.
" WILLIAM H. MCKNEW.	" M. B. WRIGHT.
" OSCAR A. MECHLIN.	" H. C. YARROW.
" VAN AUKEN MILLS.	

## CLASS PRESIDENTS AND SECRETARIES.

## DEPARTMENT OF ARTS AND SCIENCES.

*Graduate Studies:* J. F. SEILER, President; Miss RHODA WATKINS, Secretary.

*Seniors, A. & S.:* E. R. EATON, President; LINDA LEE CLIFT, Secretary.

*Seniors, Eng. & Mech. Arts:* M. J. MCPIKE, President; I. R. SAUM, Secretary.

*Juniors, Dept. A. & S.:* GEO. POOLE, President; ROY CARTY, Secretary.

*Sophomore, Dept. A. & S.:* H. KEATS, President.

*Freshman, Dept. A. & S.:* R. T. FRAZIER, President; RALPH HOSPITAL, Secretary.

*Senior-Junior, Architecture:* MEADE BOLTON, Temporary Chairman.

*Sophomore, Arch.:* T. E. HALLER, President; C. J. KLEE, Secretary.

*Freshman, Arch.:* T. B. ROBINSON, President; R. G. WALKER, Secretary.

*Political Science:* No officers elected as yet.

#### DEPARTMENT OF LAW.

*Masters Course:* None.

*Senior:* F. F. FORD, President; C. M. BEHRMANN, Secretary.

*Junior:* W. JEFFERSON DAVIS, President; J. S. PRESTON, Secretary.

*Freshman, Day Class:* R. GAMBLE, President.

*Freshman, Afternoon Class:* E. W. BOND, President; BIRCH HELMS, Secretary.

#### DEPARTMENT OF MEDICINE.

*Senior:* G. W. HOOVER, President; WALTER PRICE, Secretary.

*Junior, 1911 Class:* C. G. ZIMMERMAN, President; CLEM COX, Secretary.

*Junior, 1912 Class:* J. C. DYER, President.

*Sophomore:* G. S. LUCKETT, President; B. R. READ, Secretary.

*Freshman:* J. D. STOUT, President; J. N. HENNEBERGER, Secretary.

#### DEPARTMENT OF DENTISTRY.

*Senior:* Not yet elected.

*Junior:* L. Y. BEERS, President; H. E. WOOD, Secretary.

*Freshman:* EZRA A. FREEMAN, President; Miss A. E. THACKER, Secretary.

#### NATIONAL COLLEGE OF PHARMACY.

*Senior:* DOUGLAS TSCHIFFELY, President; HAROLD MORGAN, Secretary.

*Junior:* L. W. BEESON, President; FRANK MARSDEN, Secretary.

*Freshman:* MASON E. LEE, President.

#### COLLEGE OF VETERINARY MEDICINE.

*Junior:* F. A. HUGINS, President; G. H. KOON, Secretary.

*Freshman:* J. E. MORCOCK, President; J. E. HODGE, Secretary.



## REGISTRATION OF STUDENTS.

The registration of students in all departments of the University, Dec. 20, is as follows:

Graduate School .....	72
College of Arts and Sciences.....	284
College of Engineering and Mechanic Arts.....	172
College of the Political Sciences.....	55
Teachers College .....	81
Division of Architecture.....	61
Department of Law.....	306
Department of Medicine.....	113
Department of Dentistry.....	26
College of Pharmacy.....	87
College of Veterinary Medicine.....	51
Total .....	1,308

In the professional schools of Law and Medicine there has been a marked increase in the number of college graduates. In the Law School there are at present 114 graduates of colleges and in the Medical Department 20.

In the Teachers College the course in Arts and Crafts has been discontinued. In this course last year there were enrolled for the first semester 40 students.

By reason of insufficient preliminary education the applications of more than 40 students for entrance to the Law School of the University were rejected. This is in accordance with the advanced requirements for entrance which the University is insisting upon in the professional schools.

## GEOGRAPHICAL DISTRIBUTION OF STUDENTS.

Alabama .....	1	Illinois .....	37
Arizona .....	2	Indiana .....	17
Arkansas .....	4	Iowa .....	22
California .....	12	Kansas .....	11
Colorado .....	1	Kentucky .....	15
Connecticut .....	7	Louisiana .....	4
Delaware .....	7	Maine .....	8
District of Columbia.....	538	Maryland .....	85
Florida .....	4	Massachusetts .....	43
Georgia .....	6	Michigan .....	18
Idaho .....	4	Minnesota .....	14

Mississippi .....	4	Wisconsin .....	21
Missouri .....	18	Australia .....	1
Nebraska .....	12	Canada .....	1
New Hampshire .....	9	Central America .....	1
New Jersey .....	15	China .....	6
New Mexico .....	2	Cuba .....	3
New York .....	60	Egypt .....	1
North Carolina .....	21	France .....	1
North Dakota .....	4	Germany .....	2
Ohio .....	34	Greece .....	1
Oklahoma .....	4	Java .....	1
Oregon .....	4	Philippine Islands .....	7
Pennsylvania .....	65	Porto Rico .....	1
Rhode Island .....	4	Russia .....	2
South Carolina .....	5	Servia .....	1
South Dakota .....	5	South Africa .....	3
Tennessee .....	13	South America .....	1
Texas .....	13	Sweden .....	1
Utah .....	6	Switzerland .....	1
Vermont .....	5	Turkey .....	1
Virginia .....	69	Uruguay .....	1
Washington .....	7		
West Virginia .....	11		
			1,308

#### THE GALLINGER-BOUTELL AMENDMENT TO THE MORRILL ACTS.

Earnest efforts are being made to secure the passage of an amendment to the Morrill Acts by which the District of Columbia will receive the annual appropriation under the terms of these acts and the George Washington University be designated as the institution in the District to receive it. It will be recalled that the Gallinger amendment was passed unanimously by the Senate of the Sixtieth Congress, but for lack of time was not passed upon by the House. The bill was introduced again in the Senate at the special session of the Sixty-First Congress. The address of President Needham on the University and the District at the opening of the University, September 29, aroused such general interest throughout the District that Mr. Henry B. F. Macfarland, President of the Board of Commissioners of the District called a meeting of representative citizens at his office Monday afternoon, November 22, for the consideration of this important District matter. There was a large attendance of citizens, and after enthusiastic approval of the plan was expressed, an executive committee of 11 was appointed to aid



in the effort to secure the appropriation. This committee is constituted as follows:

JOHN JOY EDSON, Chairman.	GEORGE H. HARRIES.
ALLEN D. ALBERT, JR.	WILLIAM F. GUDE.
CHARLES J. BELL.	T. S. HOPKINS.
IRA E. BENNETT.	WILLIAM H. SINGLETON.
SCOTT C. BONE.	GEORGE TRUESDELL.
THOMAS C. NOYES.	

Committees were also appointed from the Board of Trade and the Chamber of Commerce to co-operate in the general movement.

*Chamber of Commerce.*

ABRAM LISNER, Chairman.  
ARTHUR T. RAMSAY.  
GEO. G. WORTHINGTON.  
CLAUDE N. BENNETT.

*Board of Trade.*

THOS. C. NOYES, Chairman.  
A. R. SERVEN.  
WM. H. SAUNDERS.  
J. H. RALSTON.  
GEO. A. KING.

The bill was presented by Representative Boutell at the present session in the House of Representatives on December 6, and was referred to the Committee on Agriculture. On December 10 the Committee on Agriculture gave a hearing to the representatives of the Citizens Committee, the committees of the Board of Trade and Chamber of Commerce, and to representatives from the Trustees, Alumni, and Faculty of the University. Representative Boutell made a most effective and able presentation of the case to the Committee and was followed by Commissioner Macfarland, Mr. Justice Harlan, Dr. Needham, Dr. Harlan, Mr. Edson for the Citizens Committee, and Mr. Lisner of the Chamber of Commerce. Mr. Boutell laid special emphasis on the fact that there were many students from the States serving as secretaries to senators and congressmen and to committees, and to government officials who were living in the District but deprived of the benefits of the Morrill Acts which the States enjoy. Commissioner Macfarland asked that the appropriation be given to the District as a simple act of justice. The 340,000 American citizens living in the District should not be excluded from the benefits of this legislation. Mr. Macfarland said, "They make their full contribution through the tariff and internal revenue taxes to the Treasury, and there could be no reason why Porto Rico and Hawaii, to say nothing of all the States and Territories of the Union, should have these benefits, while the District of Columbia does not enjoy them." Mr. Justice Harlan said in the course of a very able argument for the bill, "It does seem to me that it is as little as the

United States can do to place the people of the District on an equal footing with the inhabitants of Porto Rico and Hawaii. This District has no legislature except in Congress. Congress stands in the place of the legislative body that is to care for all the interests and wants of the people of this District and they can only look to you. If our institutions are to last as long as we hope they will last, it will depend in large degree upon the extent to which we provide means of education for the people of the United States."

The students of the University have manifested the deepest interest in the pending legislation on this subject and have voluntarily rendered great service.

Very effective work has been done by the Alumni in Washington and throughout the country in arousing interest in the bill, in giving information to their representatives in Congress and in urging upon them the claims of the District and of the University. In accordance with the resolution passed by the local Alumni at the annual meeting authorizing the appointment of a committee of the Alumni to co-operate and assist, the following were appointed:

ALDIS B. BROWNE, Chairman.

FRANK H. HITCHCOCK.

FRED DENNETT.

W. S. BROUGHTON.

E. C. BRANDENBURG.

HENRY P. BLAIR.

A. S. WORTHINGTON.

M. M. PARKER.

JOHN B. LARNER.

W. W. CHRISTMAS, M. D.

ARTHUR P. DAVIS.

CLARENCE W. DeKNIGHT.

HARRY T. NEWCOMB.

JOHN B. CLARK, JR.

SAMUEL DALZELL.

REED P. CLARK.

DONALD H. McLEAN.

WOODBURY PULSIFER, M. D.

ADDISON T. SMITH.

THOMAS P. LITTLEPAGE.

CHAPIN BROWN.

JOSEPH STEWART.

CHARLES E. WILSON.

CLARENCE E. DAWSON.

M. C. HUGGETT.

LEE F. WARNER.

HAWKINS TAYLOR.

CLARENCE C. CALHOUN.

WALLACE D. McLEAN.

MELVILLE CHURCH.

WALTER CLEPHANE.

J. HOLDSWORTH GORDON.

GEORGE W. BROWN.

FRED CHAPIN.

JOHN P. EARNEST.

SELDEN M. ELY.

A. A. HOEHLING, JR.

FULTON LEWIS.

JOHN B. SLEMAN.

ALONZO STEWART.

CORCORAN THOM.

J. S. WARD THORON.

FREDERICK D. OWEN.

H. C. DAVIS.



**TITLES OF BOOKS, MONOGRAPHS, PAPERS, ETC., PUBLISHED  
BY MEMBERS OF THE FACULTIES DURING THE YEAR.**

- ABBE, TRUMAN, M.D., Instructor in Physiology and Surgery (1906- ).  
Pancreatitis. Jour. Obstet., October, 1909.  
Ambroise Paré and His Times, 1510-90. Old Dominion Journal.
- ACKER, GEORGE M., M.D., Professor of Pediatrics and Clinical Medicine (1879- ).  
Symptomatology of Gastric Ulcer, G. W. U. Med. Soc.  
The Diagnosis of Typhoid Fever in Young Children. Amer. Obst. & Gyn. Journal.  
Paper on Infant Feeding. Clinico-Pathol. Soc.
- BARNES, NOBLE P., M.D., Clinical Associate in Medicine and Instructor in Materia Medica and Therapeutics (1905- ).  
Hygiene of the Mucous Membrane. Interstate Med. Jour.  
Review in Therapeutics. Medical Soc., D. C., Nov., 1909.  
Serums and Bacterial Vaccines. Therapeutic Soc., D. C., Dec., 1909.  
A New Method of Pelvimetry.  
Report of Two Cases of Uncinariasis. G. W. U. Med. Soc.
- BORDEN, W. C., M.D., Lieut.-Col. Medical Corps, United States Army. Retired. Professor of Surgery and Dean of the Medical Department (1909- ).  
Post Cholelithic Conditions. G. W. U. Med. Soc., April, 1909.
- BOVEE, J. W., M.D., Professor of Gynecology (1896- ).  
The Existing Relations between the General Practitioner of Medicine and the Specialist. Va. Med. Semi-Mon. Ann. Gyn. & Ped.  
Bilateral Polycystic Degeneration of the Kidney. Trans. S. S. & Gyn. Assoc., The South. Med. Jour.  
Large Polycystic Kidney, with report of a case. Amer. Jour. Obst.  
Renal Excretion during the Administration of Chloroform and Ether in Gynecological Surgical Operations. Amer. Journ. Obst. Trans. Am. Gyn. Soc.  
A Method of Complete Nephroureterectomy in Women. Jour. Amer. Med. Assoc.  
Three Years of Gynecology and Obstetrics in the United States. Amer. Jour. Obst.  
Acute Diffuse Peritonitis from Ruptured Pyosalpinx. Trans. S. Surg. & Gyn. Assoc.  
Gynecology under Progress of Medical Science. Amer. Jour. Med. Science.

- BUTLER, W. K., A.M., M.D., Professor of Ophthalmology (1904- ).  
Comparative Methods of Removal of the Eye. Before the Tri-County Med. Soc., Martinsburg, W. Va.  
Significance of Ocular Paralyzes. Before the Ophthal. Soc., Washington, D. C.
- CLAYTOR, T. A., M.D., Professor of Materia Medica and Therapeutics and Clinical Professor of Medicine (1902- ).  
Orthodiagraphy in the Study of the Heart and Great Vessels. Amer. Jour. of the Med. Sciences.  
The Most Liberal Diet in Typhoid Fever. Med. Soc., D. C.
- FRANZ, S. L., PH.D., Professor of Physiology and Experimental Psychology (1906- ).  
The Knee Jerk in Paresis. Amer. Jour. Insanity.  
Sensations Following Nerve Division: I. The Pressure-like Sensations; II. The Sensibility of the Hairs; III. Temperature Sensations. Jour. Compar. Neurol.  
The Functional View of the Insanities. Bulletin No. I, Govt. Hosp. Insane.  
The Use of Association Tests in Determining Mental Contents. Bulletin No. I, Govt. Hosp. Insane. (With Dr. W. A. White.)  
A Case of Delirium Produced by Bromides. Bulletin No. I, Govt. Hosp. Insane. (With Dr. Mary O'Malley.)  
On Sleep. Jour. Philos. Psychology and Sci. Methods.  
Drugs and Fatigue. Psychol. Bull.  
Sensations Following Nerve Division. Psychol. Bull., Vol. 6.  
Proc. Amer. Psychol. Assoc.  
Temperature Sensations Following Nerve Division. Proc. Amer. Physiol. Soc.  
Sensibility of the Hairs Following Nerve Division. Proc. Amer. Physiol. Soc.
- FULLER, HOMER G., M.D., Instructor in Genito-Urinary Surgery and Venereal Diseases (1909- ).  
The Importance of an Early Diagnosis in Genito-Urinary Tuberculosis. With Dr. F. R. Hagner. Va. Med. Semi-Monthly.
- HAGNER, FRANCIS R., M.D., Professor of Genito-Urinary Surgery and Venereal Diseases (1906- ).  
A Supplementary Report on the Operative Treatment of Gonorrheal Epididymitis. Med. Rec. Dec. 1909.  
Congenital Absence of One Kidney, with report of case. Jour. Amer. Med. Assoc., Oct., 1909.  
Report of a Case of Regurgitation of Fluid from the Bladder to the Kidney during Ureteral Catheterization. Before the Amer. Urological Assoc. Unpublished.



Report of a Case of Gangrenous Cystitis, Complete Retention of Urine from Hypertrophied Prostate Operation and Recovery. Before the Amer. Urological Assoc.  
The Importance of an Early Diagnosis in Genito-Urinary Tuberculosis. With H. G. Fuller. Va. Med. Semi-Monthly.

HARRINGTON, FRANCIS E., B.S., M.D., Assistant in the Division of Medicine, University Hospital.

Case of Aneurysm of the Aorta. Wash. Med. Annals.  
A Plea for a More Liberal Education for the Medical Student. Va. Med. Semi-Monthly.  
Peculiar Delirium in Typhoid Fever. Report of a Case. Wash. Med. Annals.

HOUGH, WILLISTON S., PH.M., Professor of Psychology and Education (1905- ), Dean of Teachers College (1907- ).

Translation of Eucken's "The Problem of Human Life," with Prof. W. R. Boyce Gibson, of London University. Charles Scribner's Sons. Introduction pages XXV—1-582.

KING, A. F. A., M.D., A.M., Professor of Obstetrics (1871- ) and Dean of Department of Medicine (1879-94).

The Significance of Posture in Obstetrics. Before the Alumni Association of the Lying-in Hospital, City of New York, Nov., 1909.

The Bryce-Teacher Early Human Ova. Wash. Med. Annals, March, 1909.

Review of Obstetrics. Med. Soc., Wash., D. C., February, 1909.

What is a Living Animal? How Much of It is Alive? Popular Science Monthly, Sept., 1909.

LORENZEN, E. G., PH.B., LL.B., J.U.D., Professor of Law (1904- ).

Cases on the Conflict of Laws. Amer. Casebook Series.

The German 1908 Law of Checks. Annual Bulletin of Comparative Law Bureau of the Amer. Bar Assoc.

LUDLOW, C. S., PH.D., Instructor in Histology and Embryology (1908- ).

Mosquito Comment, Canadian Ent., Jan., 1909.

New Philippine Mosquitoes, Canadian Ent., March, 1909.

Mosquito Observations, Canadian Ent., July, 1909.

McBAIN, HOWARD LEE, PH.D., Assistant Professor of Political Science (1907- ), Dean of the College of the Political Sciences (1909- ).

How We Are Governed in Virginia and the Nation.

How We Are Governed in Alabama and the Nation.

How We Are Governed in Tennessee and the Nation.

MANNING, WILLIAM R., PH.D., Assistant Professor of Diplomatic History (1907- ).

England and Russia in Central Asia. Amer. Jour. of International Law.

The Persian Revolution and the Anglo-Russian Entente. Amer. Jour. of International Law.

MUNROE, CHARLES E., S.B., PH.D., Professor of Chemistry and Dean of the Faculty of Graduate Studies (1892- ).

The Commercial Manufacture of Amorphous Calcium Phosphide. Journal of Industrial & Engineering Chemistry.

The Consumption of Nitrate of Soda in the United States. Journal of Industrial & Engineering Chemistry.

The Detonation of Gun Cotton. Proceedings, American Philosophical Society.

The Special Alcohol Exhibit of the Jamestown Exposition. Blue Book of the Jamestown Exposition.

The Nitrogen Question from the Military Standpoint. Proceedings, United States Naval Institute.

Book Review. The Manufacture of Explosives—Twenty Years' Progress, by Oscar Guttman. Science.

Book Review. The Rise and Progress of the British Explosives Industry, by E. A. B. Hodgetts. Science.

In Memoriam—Wolcott Gibbs. Proceedings, American Chemical Society.

Editorial. The Standardization of Explosives. The Engineering Record.

Coating Sounding Tubes. Chemical Engineer.

Natural Gas for Baltimore. Report to Robert J. McCuen, Superintendent of Lamps and Lighting of the City of Baltimore. Pamphlet, Oct., 1909.

Determination of Diffusion through the Membranes of Aluminum Compounds in Food Made with Alum Baking Powder Digested in Human Gastric Juice. Pamphlet, Nov., 1909.

The Development in Explosives in the United States During the Last Three Years. Mining & Scientific Press, San Francisco, Nov., 1909.

A Primer on Explosives for Coal Miners, by Charles E. Munroe and Clarence Hall. Bull. 423, U. S. Geological Survey, Govt. Printing Office, 1909.

Abstracts of Literature of Explosives, Semi-monthly, January to December. Chemical Abstracts. Easton, Pa.

Presented at meeting of American Chemical Society, Detroit, Michigan, July, 1909, but not published: The Dynamic Explosion of a



Water Filter; The Distribution of the Common Acids in the United States.

The Use and Care of Explosives in Coal Mines, before Miners' Institute, Latrobe, Penna., June 17; Miners' Institute, Pittston, Penna., Nov. 11; Miners' Institute, Hazelton, Penna., Nov. 12; Miners' Institute Pottsville, Penna., Nov. 13.

The Standardization of Explosives, before American Society for Testing Materials, Atlantic City, June 30.

The Chemical Industries of America, before American Institute of Chemical Engineers, Philadelphia, Dec. 8.

NICHOLS, J. B., M.D., Associate in Medicine (1901- ).

Acid Intoxication. Wash. Med. Ann., May, 1908.

Partial Myxedema. Jour. Amer. Med. Assoc., April, 1909.

Life of Thomas Sydenham, M.D., 1624-1689. Wash. Med. Ann., July, 1909.

The Influence of Meteorological and Climatic Conditions on Metabolism. Med. Record, Sept., 1909; Transactions Amer. Climatological Assoc., 1909.

Bacterial Inoculations in the Prophylaxis and Treatment of Typhoid Fever. Wash. Med. Ann., Nov., 1909.

The Tuberculin and Their Diagnostic and Therapeutic Use. Read before the Clinical Soc. of D. C., Oct., 1909.

OSBORNE, JOHN BALL, A.M., Lecturer on the Consular Service (1907- ).

The Influence of Commerce in the Promotion of International Peace. Bulletin of Amer. Assoc. for International Conciliation.

The New American Tariff. Dun's International Review.

REICHELDERFER, L. H., M.D., Clinical Associate in Surgery and Superintendent of the Hospital (1904- ).

Acute Pancreatitis. Before the Clinical Society.

Treatment of Suppurative Sinuses. Before the Med. & Surg. Soc., Dec., 1909.

RICHARDSON, CHARLES W., M.D., Professor of Laryngology, Rhinology and Otology (1891- ).

An Abnormal Prolongation of the Styloid Process. Amer. Laryng. Assoc., June, 1909.

Radical Removal of the Tonsil. Amer. Otological Society, June, 1909.

Constitutional Condition Affecting Nasal Catarrh. Amer. Climatological Assoc., June, 1909.

RUEDIGER, W. C., PH.D., Assistant Professor of Educational Psychology (1907- ).

Review of Judd's Psychology. Amer. Jour. of Psychology, July, 1908.

- Review of Huey's Psychology and Pedagogy of Reading. Educational Review, Sept., 1908.
- The Indirect Improvement of Mental Function through Ideals. Educational Review, Nov., 1908.
- The Field of Education. Pedagogical Seminary, Dec., 1908.
- Teaching Pupils to Study. Education, March, 1909.
- Review of Stone's Arithmetical Abilities. Education, October, 1909.
- The Qualities of Merit in Teachers. Before the Amer. Assoc. Advancement Science.
- SCHOENFELD, HERMANN, PH.D., LL.D., Professor of German (1890- ). Richard Charmatz's Oesterreichs Innere Geschichte seit 1848. (Teubner's Verlag, Leipzig, 1909), II part publ. in American Historical Revue, Carnegie Institute, Dec., 1909.
- SCOTT, JAMES BROWN, A.M., J.U.D., Professor of International Law (1905- ).
- The Texts of the Peace Conferences at The Hague, 1899 and 1907.
- The Hague Peace Conferences of 1899 and 1907.
- American Addresses at the Second Hague Peace Conference delivered by Joseph H. Choate, Gen. Horace Porter, and James B. Scott.
- Arctic Exploration and International Law. Amer. Jour. of International Law.
- SMALL, W. S., PH.D., Lecturer on Education (1907- ).
- Addresses: The Need of a Survey of the Physical Welfare of School Children. Nov., 1909. The Content of a Course in School Hygiene for Normal Schools. Dec., 1909.
- SNOW, ALPHEUS HENRY, A.B., LL.B., Lecturer on Colonial Government (1908).
- The Administration of Dependencies.
- Considerations in the Interest of the Philippine Islands.
- Colony or Free State. Proc. of Amer. Political Science Assoc.
- Naturalization vs. Imperialism. Amer. Jour. of International Law.
- STOWELL, ELLERY C., Docteur en Droit, Instructor in International Law (1908- ).
- Consular Cases and Opinions.
- The National Naval Conference and the Declaration of London.
- Amer. Political Science Review.
- VANCE, WILLIAM R., PH.D., LL.B., Professor of Law (1903- ) and Dean of the Law Department (1905- ).
- Life of John Randolph Tucker. Great American Lawyers.
- The Early History of Insurance Law. Select Essays in Anglo-American Legal History.



The History of Legal Education in the South. Southern Publication Society.

Legal Education in the District of Columbia. George Wash. Univ. Bulletin.

WHITE, C. S., M.D., Associate in Surgery (1902- ).

Amputation at the Knee Joint under Local Anesthesia. Va. Med. Semi-Monthly.

Cerebral Injuries in the Newborn. Amer. Jour. Obstet.

A Case of Poisoning from the Bite of a Rattlesnake. Jour. Amer. Med. Anns.

The Rôle of Heart Massage in Surgery. Surg. Gynec. & Obstet., Oct., 1909.

WHITE, W. A., M.D., Professor of Mental and Nervous Diseases (1903- ).

The Relation of the Hospital for the Insane to the Medical Profession and to the Community: Bulletin No. I, Government Hosp. Insane.

The Use of Association Tests in Determining Mental Contents: Bulletin No. I, Govt. Hosp. Insane. With S. I. Franz.

A Case of Unilateral Hallucinosis (Alcoholic): Bulletin No. I, Govt. Hosp. Insane.

Some Thoughts on Heredity: Reprint from the Long Island Medical Journal, July, 1909.

The Theory of the Complex: Reprint from the Interstate Medical Journal.

The Duty of the State in Caring for the Dependent Insane: Being an address delivered before the Maryland Conference of Charities and Correction, November, 1909.

The New Government Hospital for the Insane. Dec., 1909.

Care and Treatment of the Insane. Before the Med. Society, Wash., D. C., Dec., 1909.

Pellagra. Before the Society of Nervous and Mental Diseases, D. C., Dec., 1909.

Current Conceptions of Hysteria. Before the G. W. U. Med. Society, Dec., 1909. Reprint from the Interstate Med. Jour.

WILLIS, HENRY PARKER, PH.D., Professor of Economics and Finance (1905- ).

Principles of Banking.

Government Interference in Industry.

The Tariff of 1909. Jour. Political Economy, Nov., 1909.

Recent Changes in Government Accounting. Jour. of Accountancy.

The Tariff of 1909. Jour. of Accountancy, Sept., 1909.

The Finances of the Philippines. Bulletin de Colonisation Comparée.

Book Reviews in the Bulletin of the American Economic Association and the Journal of Political Economy.

Washington Correspondence and Editorials. New York Journal of Commerce (Daily).

Washington Correspondence. Engineering and Mining Journal (Weekly).

Washington Notes. Journal of Political Economy (Monthly).





The  
George Washington University

DEPARTMENT OF ARTS AND SCIENCES

FACULTY OF GRADUATE STUDIES  
COLLEGE OF ARTS AND SCIENCES  
COLLEGE OF ENGINEERING  
AND MECHANIC ARTS  
COLLEGE OF THE POLITICAL SCIENCES  
TEACHERS COLLEGE  
DIVISION OF ARCHITECTURE



Washington, D. C.  
Published by the University  
June, 1909





# The George Washington University

DEPARTMENT OF ARTS AND SCIENCES

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CATALOGUE  
1909—1910

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REPRINTED FROM THE UNIVERSITY BULLETIN,  
CATALOGUE NUMBER, JUNE, 1909.





# The George Washington University.

## UNIVERSITY CALENDAR.

1909.

June 9, *Wednesday*.—University Commencement.

### SUMMER VACATION.

September 29, *Wednesday*.—Academic Year begins in all Departments of the University.

October 20, *Wednesday*.—Fall Convocation.

November 25-27, *Thursday to Saturday*, both inclusive.—Thanksgiving recess.

RECESS FROM DECEMBER 24, 1909, TO JANUARY 1, 1910, BOTH INCLUSIVE, 1910.

January 3, *Monday*.—Last day on which dissertations may be presented.

January 31, *Monday*.—Mid-Year Examinations completed in the Department of Arts and Sciences.

January 31, *Monday*.—Doctorate Disputation.

February 1, *Tuesday*.—Second Term begins.

February 22, *Tuesday*.—Winter Convocation.

February 22, *Tuesday*.—Annual Meeting of the Alumni Association.

March 25-28, *Friday to Monday*, both inclusive.—Easter holidays.

April 12, *Tuesday*.—Davis Prize Speaking.

April 30, *Saturday*.—Last day on which Theses may be presented.

May 23, *Monday*.—Doctorate Disputation.

May 31 - June 3, *Tuesday to Friday*.—Examination for admission.

June 1, *Wednesday*.—Examinations for Degrees completed.

June 5, *Sunday*.—Baccalaureate Sermon.

June 8, *Wednesday*.—University Commencement.



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President of the University and *ex-officio* Member of the Board.

1910.

SAMUEL H. GREENE, D.D., LL.D.

WILLIAM F. MATTINGLY, LL.D.

SAMUEL W. WOODWARD.

EUGENE LEVERING.

EDWARD M. GALLAUDET, LL.D.

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JOHN JOY EDSON, LL.B.

1911.

THOMAS H. ANDERSON.

HENNEN JENNINGS, C.E.

JOHN B. LARNER, LL.D.

HENRY B. F. MACFARLAND.

1912.

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CHARLES W. RICHARDSON, M.D.

HENRY C. PERKINS.

CHARLES D. WALCOTT.

LEWIS FLEMER, Phar.D.

ABRAM LISNER.

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HARRY C. DAVIS, Secretary.

E. M. GALLAUDET, Vice-Chairman.

CHARLES W. HOLMES, Treasurer.

WILLIAM A. DeCAINDRY, Auditor.

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1909-1910.

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HARRY C. DAVIS, L.H.D. . . . . Secretary of the University

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CHARLES CLINTON SWISHER, Ph.D., LL.D. .... Professor of History  
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PHILANDER BETTS, E.E. . . . Assistant Professor of Electrical Engineering  
EDWIN V. DUNSTAN, C.E. . . . Assistant Professor of Civil Engineering  
HOWARD LEE MCBAIN, Ph.D. . . . Assistant Professor of Political Science,  
and Dean of the College of the Political Sciences

CHARLES SIDNEY SMITH, Ph.D. .... Professor of Greek and Latin  
William CARL RUEDIGER, Ph.D. .... Assistant Professor of Educational  
Psychology

PERCY ASH, C.E.	Professor of Architecture, and Dean
WILLIAM R. VANCE, Ph.D., LL.B.	Dean of the Faculty of Law
ERNEST G. LORENZEN, Ph.B., LL.B., J.U.D.	Professor of Law
J. C. MONNET, M.A., LL.B.	Professor of Law
WILLIAM CLINE BORDEN, M.D., U.S.A. (retired)	Dean of the Faculty of Medicine

SHEPHERD IVORY FRANZ, Ph.D.....Professor of Physiology and  
Experimental Psychology  
J. J. KINYOUN, M.D., Ph.D....Professor of Pathology and Bacteriology  
J. ROLAND WALTON, D.D.S.....Dean of the Faculty of Dentistry  
HENRY E. KALUSOWSKI, Phar.D.....Dean of the National College of  
Pharmacy

University Council.

Professors and Assistant Professors in all Departments and Colleges of the University constitute the University Council. Their names appear in the list of Members of Faculties and Teaching Staff.



### ORGANIZATION.

The University embraces:

THE DEPARTMENT OF ARTS AND SCIENCES.

- The Faculty of Graduate Studies.
- The College of Arts and Sciences.
- The College of Engineering and Mechanic Arts.
- The College of the Political Sciences.
- The Teachers College.
- The Division of Architecture.

THE PROFESSIONAL DEPARTMENTS.

- The Department of Law.
- The Department of Medicine.
- The Department of Dentistry.
- National College of Pharmacy.
- The College of Veterinary Medicine.

### THE UNIVERSITY LIBRARY.

The University Library comprehends (1) the Library of the Department of Arts and Sciences, (2) the Law Library, and (3) the Medical Library. It contains over 40,000 volumes.

The Library of the Department of Arts and Sciences includes the Germanic library of the late Professor Richard Heinzel of the University of Vienna, containing 7200 books and pamphlets in Germanic philology and literature, and cognate branches; the Classical Library of the late Professor Curt Wachsmuth, of the University of Leipzig, containing 7900 books and pamphlets in Greek and Roman literature, archæology, and history; the Mount Vernon Alcove of the Political Sciences, containing 3000 volumes in political history, international law, and the social sciences; and the divisional collections in engineering and mechanic arts, architecture, and education. A well-equipped reference and reading-room is open for study and consultation from 9 a. m. to 6.30 p. m. It contains encyclopedias, dictionaries, standard works in general literature and in the various departments of study comprised under University subjects, also leading literary and scientific magazines and reviews. Students may draw books over night, and upon the special recommendation of the professor in charge of the subject concerned, for longer periods.

The Law Library contains 4750 volumes and occupies a special room in the Law Building. It is open from 9 a. m. to 10 p. m.

The Medical Library, including the J. Ford Thompson collection of works on surgery, contains 2650 volumes and is shelved in a room in the Medical School. It is open from 9 a. m. to 10.30 p. m.

Besides, the student has access to the Library of Congress which, steadily perfecting its large collections of standard works in the various branches of University study, affords exceptional facilities for research. In addition, the Public Library of the District of Columbia is being rapidly equipped with books of special importance to the University student, and its facilities are available under the most favorable conditions. Under certain restrictions, the libraries of the governmental departments may also be utilized. All these libraries are within easy reach of the University.

#### ANNUAL COMMENCEMENT AND FALL AND WINTER CONVOCATIONS.

The Annual Commencement is held on the second Wednesday in June. The Fall Convocation is held on the third Wednesday in October. The Winter Convocation is held on the 22d of February. Degrees are publicly conferred on Commencement Day and at the Fall and Winter Convocations. Members of the faculties and candidates for degrees are expected to appear in academic caps and gowns.

#### PRIVILEGES IN GOVERNMENTAL INSTITUTIONS OPEN TO UNIVERSITY STUDENTS.

In order to promote research and the diffusion of knowledge, the Congress of the United States has made the scientific resources of the Government accessible to students under the terms of the following joint resolution, approved April 12, 1892:

*"Resolved by the Senate and House of Representatives of the United States of America in Congress assembled, That the facilities for research and illustration in the following and any other governmental collections now existing or hereafter to be established in the city of Washington for the promotion of knowledge shall be accessible, under such rules and restrictions as the officers in charge of each collection may prescribe, subject to such authority as is now or may hereafter be permitted by law, to the scientific investigators and to students of any institution of higher education now incorporated or hereafter to be incorporated under the laws of Congress or of the District of Columbia, to wit:*



1. Of the Library of Congress.
2. Of the National Museum.
3. Of the Patent Office.
4. Of the Bureau of Education.
5. Of the Bureau of Ethnology.
6. Of the Army Medical Museum.
7. Of the Department of Agriculture.
8. Of the Fish Commission.
9. Of the Botanic Gardens.
10. Of the Coast and Geodetic Survey.
11. Of the Geological Survey.
12. Of the Naval Observatory."

**Libraries.**—In the archives of the State and other Departments and in the statistical bureaus of these Departments are extensive accumulations of original historical documents and data which are invaluable to graduate students in history, political science, economics, sociology, and the allied topics of research. The Library of Congress, the Public Library of the District of Columbia, and the many highly specialized libraries attached to the various Departments of the Government are made easily accessible.

**Museums.**—In the collections of the National Museum, the Smithsonian Institution, the Army Medical Museum, the Museum of Naval Hygiene, and the departmental museums are found extensive series of specimens of great value to the student of anthropology, archæology, mineralogy, geology, paleontology, biology in all its branches, and other sciences. In the Patent Office are the records of the many inventions that have contributed so materially during our national existence to modify the conditions under which we live. The Army Medical Museum, which is open for inspection daily, presents a field for study superior to any other institution of the kind, either in this country or in Europe. Its library of medical books and periodicals is the best in the world. It has an unrivaled collection of anatomical and pathological specimens, illustrating normal anatomy and the results of disease in every form, and an almost unlimited number of other preparations showing the effect of gunshot wounds and surgical injuries of every kind. It also contains almost numberless crania of every human nationality. In the National Museum is found the most complete and best arranged collection of *Materia Medica* in the world. The drugs

are shown in all their processes of manufacture, from the original package to the delicate alkaloid constituting the active principal.

**Laboratories.**—In the experimental sciences the most notable facilities are available, since in Washington are centered the Weather Bureau, with its appliances for the study of national problems in meteorology; the Coast and Geodetic Survey, from which the surveys of our territory are carried on and by which the figure of the earth and terrestrial magnetism are experimentally determined; the Hydrographic Bureau, which conducts the surveys of foreign coasts and the study of the oceans; the Bureau of Standards, which standardizes the instruments used in measuring mass, volume, heat, light, electricity, and all other magnitudes; the Geological Survey, which investigates the structure of the earth, ascertains our mineral resources, and supervises the sources of supply and means for distribution and control of water for irrigation purposes; the Department of Agriculture, which exists primarily for conducting original investigations for the benefit of agriculture in all its branches, and is therefore provided with extensively equipped laboratories for the study of chemistry, botany, vegetable physiology, entomology, biochemistry, bacteriology, comparative pathology, parasitology, the physics and chemistry of the soil, forestry, and microscopy; the Naval Observatory and Nautical Almanac Office, where researches in astronomy and navigation are conducted; the Marine Hospital Service, which deals with national problems in hygiene; the Bureaus of Construction and of Steam Engineering of the Navy, having supervision over the designs and construction of our ships; the Bureau of Yards and Docks, having supervision over the engineering operations at our navy yards and naval stations; the Bureau of Equipment, which is charged with the electrical installations for the Navy; the United States Signal Corps, which has supervision over the electrical installations for the Army; the Engineer Corps of the Army, which is charged with river and harbor improvements, and the Light-House Board, which controls the system for lighting our navigable waters.

Of chemical laboratories for conducting the tests of materials, and especially for research work, there are now eighteen attached to the different departments at Washington. An extensive new laboratory is being equipped for the Marine Hospital and Public Health Service. This is the national health department of the Government. In this laboratory and in the laboratories of the Department of Agriculture there are superior facilities for all kinds of bacteriological and chemical investigations, and for the study of biochemistry, comparative pathol-



ogy, and parasitology. The new laboratories and hospitals of the Army and the Navy also offer many opportunities for instruction.

Washington offers exceptional opportunities for special or advanced work in Mechanical Engineering. The departments of the Government charged with designing are all located here. In the Bureaus of Steam Engineering and of Construction and Repair, and Ordnance, of the Navy, are projected a large amount and extensive variety of heavy constructional work. Here is also located the United States Navy or Ordnance Gun Factory. The Ordnance Proving Station is but a few miles down the Potomac. Tours of inspection may be made to the large steel-works and shipbuilding plants in Baltimore, and the shipbuilding plant at Newport News.

## Department of Arts and Sciences.

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The Department of Arts and Sciences is organized as follows:

### THE FACULTY OF GRADUATE STUDIES.

Offers graduate seminary, laboratory, and lecture courses leading to the master's degrees, the engineering degrees (C.E., E.E., M.E.), and the degrees of Doctor of Jurisprudence and Doctor of Philosophy.

### THE FACULTY OF UNDERGRADUATE STUDIES.

Offers undergraduate courses in arts, philosophy, and science, in the following colleges and divisions:

- College of Arts and Sciences.
  - College of Engineering and Mechanic Arts.
  - College of the Political Sciences.
  - Teachers College.
  - Division of Architecture.
- 

## FACULTY OF GRADUATE STUDIES

- CHARLES WILLIS NEEDHAM, LL.D.....PRESIDENT OF THE UNIVERSITY  
JAMES HOWARD GORE, Ph.D.....Professor of Mathematics, Emeritus  
HOWARD LINCOLN HODGKINS, Ph.D.....Professor of Mathematics  
HERMANN SCHOENFELD, Ph.D.....Professor of German  
JAMES MACHRIE STERRETT, D.D....Professor of Philosophy, Emeritus  
CHARLES E. MUNROE, Ph.D.....Professor of Chemistry, and Dean  
CHARLES CLINTON SWISHER, Ph.D., LL.D.....Professor of History  
WILLIAM ALLEN WILBUR, A.M.....Professor of English  
MITCHELL CARROLL, Ph.D.....Professor of Classical Languages  
GEORGE N. HENNING, A.M.....Professor of Romance Languages  
\*THEODORE N. GILL, Ph.D.....Professor of Zoölogy  
\*FRANK W. CLARKE, Sc.D.....Professor of Mineral Chemistry  
\*HARVEY W. WILEY, Ph.D.....Professor of Agricultural Chemistry

\* Giving part time to teaching in the University.



- \*FRANK H. BIGELOW, L.H.D.....Professor of Astro-Physics  
 \*GEORGE P. MERRILL, Ph.D.....Professor of Geology and Mineralogy  
 \*PAUL BARTSCH, M.S., Ph.D.....Professor of Zoölogy  
 PERCY ASH, C.E.....Professor of Architecture  
 \*GEORGE LANSING RAYMOND, L.H.D.....Professor of Æsthetics  
 WILLISTON S. HOUGH, Ph.M..Professor of Psychology and Education  
 \*HENRY L. ABBOTT, LL.D., Brig.-Gen. U.S.A.....Professor of  
 Hydraulic Engineering  
 \*GEORGE M. STERNBERG, M.D., LL.D., Surgeon-Gen. U.S.A....Professor  
 of Preventive Medicine  
 \*EDWARD B. ROSA, Ph.D.....Professor of Physics  
 \*ASAPH HALL, JR., Ph.D.....Professor of Astronomy  
 \*SHEPHERD IVORY FRANZ, Ph.D..Professor of Experimental Psychology  
 HENRY PARKER WILLIS, Ph.D.....Professor of Finance  
 \*ALBERT MANN, A.M., Ph.D.....Professor of Botany  
 WILLIAM R. VANCE, LL.B., Ph.D.....Professor of Law  
 ERNEST G. LORENZEN, Ph.B., J.U.D.....Professor of Law  
 \*N. MONROE HOPKINS, Ph.D.....Assistant Professor of Chemistry  
 CHARLES SIDNEY SMITH, Ph.D.....Assistant Professor of Greek and  
 Latin  
 \*EDWIN A. HILL, Ph.D.....Assistant Professor of Stereo-Chemistry  
 PHILANDER BETTS, M.S., E.E.....Assistant Professor of Electrical  
 Engineering  
 \*TIMOTHY W. STANTON, Ph.D.....Assistant Professor of Paleontology  
 DEWITT C. CROISSANT, A.B.....Assistant Professor of English  
 ALFRED F. W. SCHMIDT, A.M.....Assistant Professor of German  
 EDWIN DUNSTAN, C.E.....Assistant Professor of Civil Engineering  
 OSCAR A. MECILIN, C.E.....Assistant Professor of Civil Engineering  
 ARTHUR C. WILLARD, B.S.....Assistant Professor of Mechanical  
 Engineering  
 WILLIAM C. RUEDIGER, Ph.D.....Assistant Professor of Educational  
 Psychology  
 \*LOUIS COHEN, B.S.....Assistant Professor of Mathematics  
 WILLIAM RAY MANNING, Ph.D....Assistant Professor of Diplomatic  
 History  
 HOWARD LEE MCBAIN, Ph.D..Assistant Professor of Political Science  
 \*FREDERICK E. FOWLE, JR., S.B.....Lecturer on Astro-Physics  
 HARRY CASSELL DAVIS, L.H.D.....Secretary  
 \*EDGAR BUCKINGHAM, Ph.D.....Lecturer on Thermodynamics

\* Giving part time to teaching in the University.

The Division of Graduate Studies is charged with the development and supervision of research courses leading to the higher degrees. This work was organized at this University in 1893 with a view to enable properly equipped students to avail themselves of the advantages which Washington offers for original investigations. Announcements relative to the official matters of this Division are made by the Dean, and professors and students of this Division are expected to be governed by them.

#### HIGHER DEGREES.

The higher degrees conferred in course by the University in this Division of the Department of Arts and Sciences are Master of Arts (A.M.), Master of Science (M.S.), Civil Engineer (C.E.), Electrical Engineer (E.E.), Mechanical Engineer (M.E.), Doctor of Jurisprudence (Jur.D.), and Doctor of Philosophy (Ph.D.).

#### ADMISSION.

Candidates for admission to courses for higher degrees must present the diplomas they hold, or certificates that they have received such diplomas, to the Secretary of the University, and obtain from him application blanks. When properly filled and signed, these applications are to be submitted to the Dean of the Faculty of Graduate Studies, together with catalogues of the institutions from which the candidates hold their degrees and certificates of their course of study at such institutions. All such applications should be accompanied by testimonials as to character and scholarship.

#### DEGREES OF MASTER OF ARTS AND MASTER OF SCIENCE.

To be admitted to candidacy for the Master's degree a student must have completed a liberal undergraduate course of study such as is required by colleges of good standing antecedent to the baccalaureate degree. The Faculty of Graduate Studies reserves the right to decide in all cases whether the antecedent training fulfils the requirements. Moreover, the courses of study pursued must have been such as to qualify the candidate for pursuing the subjects chosen for the Master's degree. In seeking admission the applicant must state whether he desires to obtain the Specialist degree or the Liberal Culture degree.

The Specialist degree is designed for students who propose to proceed toward the Doctor of Philosophy degree. Such candidates are required to complete one major and two minor subjects selected from properly correlated University subjects approved by the Faculty upon recommendation of the professors in charge and to present a satisfactory dissertation. Only one of the minor topics may be selected from the University subject which includes his major topic. Work for which



this degree has been awarded may be credited as one year of work toward the Doctor of Philosophy degree, provided that it be in the same field of work.

The Liberal Culture degree is designed for students who do not intend to specialize in their work. Such candidates are required to complete three full courses of studies, of two or three hours each, distributed among three University subjects, not more than six hours of which shall be given to any one subject. These subjects must have the approval of the Faculty on the recommendation of the professors in charge. The candidate must also present a dissertation in the field to which his major subject belongs.

A candidate for a Master's degree must pass at least one full year in residence and study at this University, and no work done by him for the Bachelor's degree shall be counted again for a higher degree.

#### HIGHER DEGREES IN ENGINEERING.

To be admitted to candidacy for higher degrees in Engineering a student must have completed a liberal undergraduate course of study such as is required by colleges of good standing antecedent to the baccalaureate degree in Engineering, and of such a character as to fit him to pursue to advantage the study of advanced engineering topics. The Faculty of Graduate Studies reserves the right to decide in all cases whether the antecedent training fulfils the requirements. Moreover, the courses of study pursued for the Bachelor's degree must be approved by the Faculty as qualifying the candidate for pursuing the chosen line of study for the degree sought.

A candidate for a degree in Engineering shall pass at least one full year of residence and study at this University, sustain satisfactory examinations on the studies pursued and present an acceptable thesis, together with a bibliography. Three full courses is the minimum required as constituting a full year's work. The courses chosen must be passed upon by the Faculty of Graduate Studies and have the approval of the professors under whom they are to be taken.

#### DOCTOR'S DEGREES.

The degree of Doctor of Jurisprudence or Doctor of Philosophy is conferred upon a student who has pursued specialized courses in University Subjects; engaged in original research in certain of the various departments of law, letters or science under university auspices, for a period of not less than three years; has submitted an acceptable thesis, and has met all the requirements prescribed. The degree is given for high attainments and proved ability to do research work in some special branch of knowledge, as determined by the various tests applied.

Before a student can be admitted to candidacy for the Doctor's degree he must give evidence that he has completed a liberal undergraduate course of academic study such as is required by colleges of good standing antecedent to the baccalaureate degree, and of such a character as to fit him to pursue to advantage researches in the field chosen for graduate work. The Faculty of Graduate Studies reserves the right to decide in all cases whether the antecedent training fulfils the requirements. The applicant may be credited with graduate work done at other universities, provided such work is shown to be of grade similar to that required here, but the last year must be spent in residence at this University and the other requirements of the degree as prescribed must be fulfilled.

The candidate for the Doctor's degree shall offer three topics from the University Subjects—one major and two collateral minor studies—the combination to be approved by the Faculty of Graduate Studies. These must be pursued under the guidance of a committee consisting of the professors in charge of the University Subjects in which the studies are pursued, with the professor in the major subject as chairman. This committee will determine his division of time, study, and research among the major and minor topics, but in general the major topic should be pursued during the whole time devoted to graduate work, and each minor topic during at least one year. The candidate shall pass satisfactory examinations upon the three subjects selected. He must satisfy the Faculty that he can read understandingly, in the original, French and German works pertaining to his special field. In order to graduate the candidate must possess a broad acquaintance with his major subject and he must present a dissertation upon some topic approved by the professor in charge of his major subject, which shall be a contribution to knowledge and which shall be accompanied by an adequate bibliography.

#### EXAMINATIONS.

Candidates must pass written examinations upon all their topics. The examinations upon the minor topics may be taken at the close of the respective years in which these topics are completed, or later, at the discretion of the examiner. The final written examination on the major topic shall cover the candidate's entire university work, and shall be given when the professor of that subject is satisfied that the student has taken sufficient work to warrant such an examination being taken.

Every candidate for a Doctor's degree must pass an oral examination in all these subjects, and must defend his dissertation in the presence of the Faculty of Graduate Studies, or of so many of its members as may desire or may be designated by the Faculty to attend, and such other



Agriculture; J. H. KASTLE, Ph.D., Chief, Division of Chemistry, Hygienic Laboratory, U. S. Public Health and Marine Hospital Service; C. F. LANGWORTHY, Ph.D., Chief, Nutrition Investigations, Office of Experiment Stations. Assistant Professor THOMAS M. PRICE, Ph.D., presiding.

*Thesis:* The possibility of shellfish contamination from sewage-polluted waters. By GEORGE WHITFIELD STILES, JR., B.S., 1900, Oklahoma Agricultural and Mechanical College; M.D., 1905, The George Washington University. Before BENJAMIN MEADE BOLTON, M.D., Expert in Experimental Therapeutics, Bureau of Animal Industry; Lt.-Col. W. C. BORDEN, U.S.A. (retired), M.D.; JOHN R. MOHLER, V.M.D., Chief, Pathological Division, Bureau of Animal Industry. Professor GEORGE M. STERNBERG, M.D., LL.D., Surgeon-General U. S. A. (retired), presiding.

*Thesis:* Martin Luther's political reforms of Germany. By LUTHER HESS WARING, B.A., 1905, The George Washington University; M.A., 1904, Columbian University. Before Rev. GEORGE BROTHAGE, Ph.D., D.D.; Hon. HANNIS TAYLOR, LL.D.; Rev. CHARLES WOOD, D.D. Professor HERMANN SCHOENFELD, Ph.D., LL.D., presiding.

#### UNIVERSITY FELLOWSHIPS.

The Board of Trustees established five Fellowships in Graduate Studies, which became available for the academic year of 1908-1909. One of these Fellowships yields \$600; two, \$500, and two, \$400 per annum, but they do not exempt the holder from the charges for tuition. The holders of these Fellowships are expected to teach Undergraduate classes not less than two, nor more than eight hours a week in the departments of instruction in which they are pursuing graduate work. These Fellowships are to be bestowed upon candidates who take regular Graduate courses with a view to the Doctor of Philosophy degree and expect to devote their lives to teaching or research in some branch of science, politics or letters. The appointments for the session of 1909-10 are filled by the Committee on Fellowships under the following regulations:

1. The application should be made in writing, to the Dean of the Faculty of Graduate Studies, and he will refer the papers to the Committee on Fellowships, by whom the appointments are made. Hereafter applications for Fellowships for the next session should be on file by May 1.

2. Testimonials and references should accompany the application. The candidate must give evidence of a liberal education, such as a Bachelor's degree from a college in good repute; of decided capacity for research, such as a piece of scientific or literary work already performed; and of upright character and high attainments, such as testimonials from former instructors.

3. In making appointments, the Committee will first consider candidates who have already done graduate work in this University, then candidates who have done graduate work in other universities, then candidates who have engaged in research under other than university

auspices, but in every case the final decision will be determined by fitness for the Fellowship awarded.

4. Every holder of a Fellowship is expected to give from two to eight hours of instruction in the departments of the University in which he is a candidate for a degree.

5. He must reside in Washington during the academic year, and will be expected to devote his time to the prosecution of his special studies, under the direction of the professors in charge, with a view to the attainment of the Ph.D. degree. He may not engage in any occupation outside of his regular University duties without leave of the Committee on Fellowships.

6. He may be reappointed at the end of the year, but only for exceptional reasons.

7. Doctors of Philosophy of this and other universities of high grade may be appointed Fellows by Courtesy in this University and enjoy all its opportunities for research without charge.

#### TEACHING FELLOWS.

HOWARD BISHOP LEWIS, B.A. .... Teaching Fellow, Department of Chemistry

PHILIP JOHNSON, A.M., B.D. .... Teaching Fellow, Department of Philosophy

#### THE FACULTY OF UNDERGRADUATE STUDIES.

CHARLES WILLIS NEEDHAM, LL.D. .... PRESIDENT OF THE UNIVERSITY

JAMES HOWARD GORE, Ph.D. .... Professor of Mathematics, Emeritus

HOWARD LINCOLN HODGKINS, Ph.D. .... Professor of Mathematics, and

Dean of the College of Engineering and Mechanic Arts

HERMANN SCHOENFELD, Ph.D., LL.D. .... Professor of German

JAMES MACBRIDE STERRETT, A.M., D.D. .... Professor of Philosophy, Emeritus

CHARLES EDWARD MUNROE, Ph.D. .... Professor of Chemistry, and Dean of the Faculty of Graduate Studies

\*GEORGE P. MERRILL, Ph.D. .... Professor of Geology and Mineralogy

WILLIAM ALLEN WILBUR, A.M. .... Professor of English, and Dean of the College of Arts and Sciences

CHARLES CLINTON SWISHER, Ph.D., LL.D. .... Professor of History

MITCHELL CARROLL, Ph.D. .... Professor of Classical Languages

\*PAUL BARTSCH, Ph.D. .... Professor of Zoölogy

GEORGE N. HENNING, A.M. .... Professor of Romance Languages

PERCY ASH, C.E. .... Professor of Architecture, and Dean

\*GEORGE LANSING RAYMOND, L.H.D. .... Professor of Æsthetics

ALBERT BURNLEY BIBB, .... Professor of Architecture

\* Giving part time to teaching in the University.



- WILLISTON S. HOUGH, Ph.M., Professor of Psychology and Education,  
and Dean of the Teachers College
- \*JAMES BROWN SCOTT, M.A., J.U.D., Professor of International Law
- \*ALBERT MANN, Ph.D., Professor of Botany
- HARRIETT STRATTON ELLIS, A.B., Dean of Women
- HENRY PARKER WILLIS, Ph.D., Professor of Finance
- CHARLES SIDNEY SMITH, Ph.D., Professor of Greek and Latin
- \*NEVIL MONROE HOPKINS, Ph.D., Assistant Professor of Chemistry
- PHILANDER BETTS, E.E., Assistant Professor of Electrical Engineering
- \*EDWIN A. HILL, Ph.D., Assistant Professor of Chemistry
- \*THOMAS MALCOLM PRICE, Ph.D., Assistant Professor of Chemistry
- \*RAY SMITH BASSLER, Ph.D., Assistant Professor of Geology
- PAUL N. PECK, A.M., Assistant Professor of Mathematics
- DE WITT C. CROISSANT, A.B., Assistant Professor of English
- ALFRED F. W. SCHMIDT, A.M., Assistant Professor of German
- EDWIN V. DUNSTAN, C.E., Assistant Professor of Civil Engineering
- OSCAR A. MECHLIN, C.E., Assistant Professor of Civil Engineering
- ARTHUR CUTTS WILLARD, B.S., Assistant Professor of Mechanical  
Engineering
- WILLIAM RAY MANNING, Ph.D., Assistant Professor of History
- WILLIAM CARL RUEDIGER, Ph.D., Assistant Professor of Educational  
Psychology
- †CHARLES MASON REMEY, Assistant Professor of Architecture
- JAMES FREDERICK PEAKE, A.M., Assistant Professor of History
- HOWARD LEE MCBAIN, Ph.D., Assistant Professor of Political Science
- OTIS D. SWETT, M.S., LL.M., Instructor in Chemistry
- EVERETT W. VARNEY, A.B., Instructor in Physics
- F. CHARLES STARR, B.S., Instructor in Civil Engineering
- ELLERY C. STOWELL, "Docteur en droit", Instructor in International  
Law
- CHARLES W. MORTIMER, B.S., Instructor in Electrical Engineering
- \*GEORGE MORTON CHURCHILL, A.M., Instructor in History
- ROBERT R. KERN, Instructor in Economics
- WILLIAM WEBB SNIFFIN, A.M., Assistant of Romance Languages

### EXECUTIVE FACULTIES.

#### College of Arts and Sciences.

DEAN WILBUR, Professors MUNROE, CARROLL, HENNING, Assistant  
Professors SCHMIDT, PEAKE, PECK.

\* Giving part time to teaching in the University.

† Absent on leave.

**College of Engineering and Mechanic Arts.**

Dean HODGKINS, Professors SCHOENFELD, MERRILL, Assistant Professors BETTS, PECK, CROISSANT, DUNSTAN, MEHLIN, WILLARD.

**College of the Political Sciences.**

Dean MCBAIN, Professors SWISHER, LORENZEN, SCOTT, WILLIS, and Assistant Professor MANNING.

**Teachers College.**

Dean HOUGH, Professors BARTSCH, SMITH, FRANZ, Assistant Professors CROISSANT, RUEDIGER, and Dr. MYERS.

**Division of Architecture.**

Dean ASH, Professors RAYMOND, BIBB, Assistant Professor REMEY.



## COLLEGE OF ARTS AND SCIENCES

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The session of 1909-1910 begins Wednesday, September 29, 1909.

The College of Arts and Sciences is open to men and women. The courses of study are conducted mainly in the University Building, corner Fifteenth and H streets, N. W. The office of the Dean is in this building.

The Woman's Building, within four minutes' walk, is situated at 1538 I street.

### ADMISSION.

Every applicant for admission is required to present a testimonial of good character, and also a certificate of standing and regular dismissal from the school or college which he has attended or from the tutor with whom he has studied.

Candidates for admission to the Freshman Class may present certificates of admission or take an examination in the required subjects. Certificates, in lieu of any or all examinations, will be accepted from schools whose work is attested by well-prepared students admitted to the University in previous years, and from schools desiring coöperation with the University, that present evidence of affording adequate preparation in the required subjects. The Secretary of the University will, on application, furnish certificate blanks to the principals of such accredited schools.

The certificate of the College Entrance Examination Board will be accepted in so far as the subjects specified meet the requirements for admission.

*The requirement for admission is a four-year high school course, or its equivalent, amounting to fifteen "units." A unit is a subject studied one school-year of five periods a week. Seventy-five such periods or "counts" make the fifteen-unit requirement.*

*These fifteen units must include English, 3 units; Mathematics, 2 units; and one of the following languages: Latin, 4 units; Greek, 3 units; French, 2 units; German, 2 units; or Spanish, 2 units. The remainder of the requirement is elective and may be satisfied in general by any high school subject approved by the College Entrance Examination Board. Subjects that will be accepted are described in the following pages under "Definition of Requirements."*

### EXAMINATIONS FOR ADMISSION.

The regular examinations for admission to the Freshman Class are held in University Hall, corner of Fifteenth and H streets, N. W.

during the week preceding the Commencement. The following is the schedule for the examination:

*May 31, 1910.*

Registration of Applicants at the Dean's office.....	8.30- 9.00
Elementary Latin .....	9.00-11.00
Plane Geometry .....	11.00- 1.00
Physics .....	2.00- 4.00
Greek .....	2.00- 5.00

*June 1.*

Elementary Algebra .....	9.00-11.00
Elementary French .....	11.00- 1.00
German .....	2.00- 4.00
Ancient History .....	4.00- 6.00

*June 2.*

Plane Trigonometry .....	9.00-11.00
Advanced French, Advanced German.....	11.00- 1.00
English .....	2.00- 5.00

*June 3.*

Advanced Algebra .....	9.00-11.00
Solid Geometry .....	11.00- 1.00
Chemistry; Advanced Latin.....	2.00- 4.00
English History .....	4.00- 6.00

Subjects offered for admission, but not named in the schedule of examinations, will be arranged for as occasion arises.

Unless admitted by certificate, every undergraduate candidate for a degree is required to pass an examination.

## DEFINITION OF REQUIREMENTS.

### ENGLISH.

(Counting three units.)

No candidate will be accepted in English whose work is notably defective in point of spelling, punctuation, idiom, or division into paragraphs.

a. **READING AND PRACTICE**—one and one-half units. The form of examination will usually be the writing of a paragraph or two on each of several topics to be chosen by the candidate from a considerable number—perhaps ten or fifteen—given in the examination paper. The treatment of these topics is designed to test the candidate's power of clear and accurate expression, and will call for only a general knowl-



edge of the substance of the books. *In every case knowledge of the book will be regarded as less important than the ability to write good English.* In preparation for this part of the examination, it is important that the candidate shall have been instructed in the fundamental principles of rhetoric.

Candidates should read the books prescribed for the year in which they propose to present themselves for this part of the examination.

In 1909, 1910, and 1911, the ten books for reading and practice selected from the list recommended by the Conference on Uniform Entrance Requirements in English, are as follows:

Shakespeare's *As You Like It* and *Julius Cæsar*; *The Sir Roger de Coverley Papers* in the *Spectator*; Chaucer's *Prologue*; Thackeray's *Henry Esmond* and Dickens' *A Tale of Two Cities*; Lamb's *Essays of Elia* and Ruskin's *Sesame and Lilies*; Coleridge's *The Ancient Mariner* and Tennyson's *Gareth*; and *Lynette, Lancelot and Elaine*, and *The Passing of Arthur*.

A candidate may, by giving due notice, substitute any other list that conforms to the requirements recommended by the Conference on Uniform Entrance Requirements in English.

b. STUDY AND PRACTICE—one and one-half units. This part of the examination presupposes the thorough study of each of the works named below. The examination will be upon subject-matter, form, and structure. In addition, the candidate may be required to answer questions involving the essentials of English grammar, and questions on the leading facts in those periods of English literary history to which the prescribed works belong.

The books set for this part of the examination will be:

1909, 1910, 1911: Shakespeare's *Macbeth*; Milton's *Lycidas*, *Comus*, *L'Allegro*, and *Il Penseroso*; Burke's *Speech on Conciliation with America*, or Washington's *Farewell Address* and Webster's *First Bunker Hill Oration*; Macaulay's *Life of Johnson*, or Carlyle's *Essay on Burns*.

#### LATIN.

*Elementary* (counting two units).

a. i. Latin Grammar: The inflections; the simpler rules for composition and derivation of words; syntax of cases and the verbs; structure of sentences in general, with particular regard to relative and conditional sentences, indirect discourse, and the subjunctive.

ii. Latin Prose Composition: Translation into Latin of detached sentences and easy continuous prose based upon Cæsar.

b. Cæsar: Any four books of the Gallic War, preferably the first four.

*Advanced* (counting two units).

- a. Cicero: Any six orations from the following list, but preferably the first six mentioned:

The four orations against Catiline, Archias, the Manilian Law, Marcellus, Roscius, Milo, Sestius, Ligarius, the Fourteenth Philippic.

- b. Vergil: The first six books of the *Æneid*.

- c. Advanced Prose Composition, consisting of continuous prose of moderate difficulty based on Cicero.

- d. Sight Translation, based on prose of no greater difficulty than the easier portions of Cicero's orations.

## GREEK.

*Elementary* (counting two units).

- a. i. Greek Grammar: The topics for the examination in Greek grammar are similar to those detailed under Latin grammar.

- ii. Greek Prose Composition, consisting principally of detached sentences to test the candidate's knowledge of grammatical constructions.

The examination in grammar and prose composition will be based on the first two books of Xenophon's *Anabasis*.

- b. Xenophon: The first four books of the *Anabasis*.

*Advanced* (counting one unit).

- a. *Homer*: The first three books of the *Iliad* (omitting II, 494, to end).

- b. Sight Translation, based on prose of no greater difficulty than Xenophon's *Anabasis*.

## FRENCH.

*Elementary* (counting two units). Candidates in Elementary French must have a good knowledge of the essential parts of grammar, with stress on pronouns and on regular verbs and the common irregular verbs. They must know the principles of pronunciation; must be able to translate simple English sentences or easy connected prose into French, and to translate accurately ordinary modern French prose. Candidates must have translated not less than 450 duodecimo pages by at least four different authors, of which amount at least one-third must be history. Candidates must have had a two-years' course of five periods per week.

*Advanced* (counting two units). Candidates in Advanced French must have partly translated, partly read, in addition to the requirements for Elementary French, at least 1000 pages of difficult French of several different authors, including history, fiction, drama, and



poetry. Candidates must have had a four-years' course of five periods per week.

Fraser and Squair's French Grammar or Grandgent's Essentials of French Grammar is recommended.

#### SPANISH.

(Counting two units.)

Candidates in Spanish must have a good knowledge of grammar, including syntax, with stress on pronouns and verbs, regular and irregular. They must know the principles of pronunciation. They must be able to translate simple English sentences or easy connected prose into Spanish, and to translate accurately fairly difficult modern Spanish prose and verse. Candidates must have translated not less than 500 pages by at least four different authors, of which amount at least one-fourth must be history or drama. Candidates must have had a two-years' course of five periods per week.

#### GERMAN.

*Elementary* (counting two units). Candidates in Elementary German must have had a two-years' course of five periods a week. They must be able to read fluently at sight and to translate easy narrative prose and poetry. An accurate knowledge of an elementary German grammar is requisite, to be tested by the translation into German of some fifteen sentences. About 300 pages of graduated narrative prose, one short play, and such poetry as is usually found in a First Reader will be considered an adequate preparation.

*Advanced* (counting two units). Candidates in Advanced German must have had a four-years' course of five periods a week. They should be well trained in the syntactical laws of the language, have read about 800 pages of good literature in prose, preferably such prose works as are given in the Report of the Committee of Twelve of the Modern Language Association, and poetry, especially dramas by Lessing, Schiller, and Goethe, and studied an elementary history of German literature. German composition should comprise a number of short themes upon assigned historical or literary topics, lives of the authors read, etc.

#### HISTORY.

In this subject special importance is attached to preparation in geography.

*Ancient* (counting one unit).

a. Greek History, through the Roman Conquest; as much as is contained in Myer's, Bottsford's, or West's History of Greece.

- b. Roman History; as much as is contained in Allen's, Bottsford's, or West's History of the Roman People.

*Mediæval and Modern European History* (counting one unit). As much as is contained in Myer's History of Mediæval and Modern Europe.

*English History* (counting one unit). As much as is contained in Larned's or Cheyney's History of England.

*American History with the Elements of Civil Government* (counting one unit). As much as is contained in Fiske's History of the United States, and Fiske's Civil Government.

### MATHEMATICS.

*Elementary Algebra* (counting one unit).

#### i. Algebra to Quadratics:

The four fundamental operations for rational algebraic expressions, factoring, highest common factor, lowest common multiple, complex fractions, the solution of equations of the first degree containing one or more unknown quantities, radicals, including the extraction of the square root of polynomials and numbers, and fractional and negative exponents.

#### ii. Quadratics, etc.:

Quadratic equations and equations containing one or more unknown quantities that can be solved by the methods of quadratic equations, problems depending upon such equations, ratio and proportion, and the binomial theorem for positive integral exponents.

*Advanced Algebra* (counting one-half unit).

#### i. Progressions, etc.:

The progressions, the elementary treatment of permutations and combinations, and the use of four and five place tables and logarithms.

#### ii. Series, etc.:

Undetermined coefficients, the elementary treatment of infinite series, the binomial theorem for fractional and negative exponents, and the theory of logarithms.

#### iii. Theory of equations:

Determinants and the elements of the theory of equations, including Horner's method for solving numerical equations.

*Plane Geometry* (counting one unit).

General text propositions, including the solution of simple original exercises and numerical problems.



*Solid Geometry* (counting one-half unit).

Properties of straight lines and planes, of dihedral and polyhedral angles, of projections, of polyhedrons, including prisms, pyramids, and the regular solids; of cylinders, cones, and spheres, of spherical triangles and the measurement of surfaces and solids.

*Plane Trigonometry* (counting one-half unit).

The definitions and relations of the six trigonometrical functions as ratios, proof of important formulas, theory of logarithms and use of tables, solution of right and oblique plane triangles.

## PHYSICS.

(Counting one unit.)

It is recommended that the candidate's preparation should include:

- a. Individual laboratory work, comprising at least thirty-five exercises well distributed over the subjects of physics.
- b. Instruction by lecture-table demonstrations.
- c. The study of at least one standard text-book, supplemented by the use of many and varied numerical problems. The metric system should be familiar to the student.

The laboratory note book must be submitted for inspection, whether the candidate is admitted on certificate or by examination.

## CHEMISTRY.

(Counting one unit.)

The candidate's preparation in chemistry should include:

- a. Individual laboratory work, comprising at least forty experiments of a character analogous to those set forth by the College Entrance Examination Board.

On application for admission to this University, every candidate seeking credit in chemistry must present an indexed note book in which he has recorded the steps and the results of his laboratory exercises, bearing an endorsement of the teacher who directed the student, written in ink on the inside of the cover.

- b. Instruction by lecture-table demonstrations to be used in instructing the student as to methods of manipulation and as a basis for questioning him upon the general principles involved in his laboratory experiments.

- c. The study of at least one modern text-book, to the end that the student may gain a comprehensive and connected view of the most important facts and laws of elementary chemistry.

*Requirements.* The ground to be covered should include the following: The chief physical and chemical characteristics, the isolation and

the recognition of the following elements and the preparation and study of their principal compounds: *Oxygen, hydrogen, carbon, nitrogen, chlorine, bromine, iodine, fluorine, sulphur*, phosphorus, silicon, potassium, *sodium*, calcium, magnesium, *zinc*, copper, mercury, silver, aluminium, *lead*, tin, *iron*, manganese, chromium.

The more detailed study should be confined to the italicized *elements* (as such) and to a restricted list of compounds, such as water, hydrochloric acid, carbon monoxide, carbon dioxide, oxides of nitrogen, nitric acid, ammonia, sulphur dioxide, sulphuric acid, hydrogen sulphide, sodium hydroxide, ammonium hydroxide.

Attention should be given to the atmosphere (constitution and relation to animal and vegetable life) flame, acids, bases, salts, oxidation and reduction, crystallization, combining proportions by weight and volume, calculations founded on these and on Boyle's and Charles' laws, symbols, formulas, equations and nomenclature, atomic theory, atomic weights, nascent state, natural groupings of the elements solution (solvents and solubility of gases, liquids, and solids), strength of acids and bases, conservation and dissipation of energy, chemical energy and electrolysis, and of valence, electrolytic dissociation, osmosis, mass action in a very elementary way. Chemical terms should be clearly understood, and the student should be able to illustrate and apply the ideas that they embody. The theoretical topics are not intended to form separate subjects of study, but to be taught only so far as is necessary for the correlation and explanation of the experimental facts. The facts should be given as examples from various classes and not as isolated things.

#### BOTANY.

(Counting one unit.)

Candidates must have had at least one year's full work in botany, comprising the general principles of morphology, physiology, and ecology, as well as the natural history of plant groups and classification. Bergen's Foundations of Botany and Atkinson's Elementary Botany indicate the general scope of the work required.

#### ZOOLOGY.

(Counting one unit.)

In general, zoölogy is not recommended as an entrance subject unless the subject has been preceded or accompanied by that of physics and chemistry, which form the most desirable groundwork for collegiate courses in biology. The entrance examination in zoölogy is designed to test, first, the candidate's practical acquaintance with the natural history, structure, and relationships of some of the leading types of animals, and, second, his knowledge of the more essential facts of physiology.



*Practical Zoölogy.* A practical examination of at least ten common animal types, and the presentation by the candidate of a laboratory note book, certified by the teacher, as evidence of a laboratory course actually performed. Examples of the types suggested are the frog, fish, mollusk, insects, crustaceans, annelid, starfish, hydroid (hydra), and protozoan. In the examination less weight is laid on a knowledge of anatomical *minutiae* than on the ability to recognize the specimen and its allies, to indicate its relationship, and to point out the leading features of its life history, organization, and physiology.

*Elementary Physiology.* The nature of foods and their history in the body; the essential facts of digestion, absorption, circulation, secretion, excretion and respiration; the motor, nervous, and sensory functions, and the structure of the various organs by which these operations are performed. Martin's *Human Body* (briefer course) forms a suitable basis for this work, but teachers are recommended as far as possible to correlate the physiology of man and the higher animals with that of the lower forms studied in the course of practical zoölogy.

#### PHYSIOGRAPHY.

(Counting one unit.)

The equivalent of Davis' Physical Geography is required, together with an approved laboratory and field course of at least forty exercises actually performed by the candidate.

The candidate will be required to present at the time of his examination the original note book in which he recorded, with dates, the steps and results of his laboratory exercises. This book, which should contain an index of subjects, must bear the endorsement of the teacher, certifying that it is a true record of the candidate's work.

#### POLITICAL ECONOMY.

(Counting one unit or two units.)

A course in Political Economy based on the contents of Ely and Wicker's text-book, or upon a similar text, will count to the extent of one unit; while a course based on Bullock's Introduction to the Study of Economics or a work of similar scope may be counted to the extent of two units.

#### DRAWING.

(Counting one unit.)

The candidate's preparation in drawing should include simple geometrical planes and solid figures and simple pieces of machinery, with a fair knowledge of the rules of perspective and light and shade as ap-

plied in freehand sketching. The candidate should be able to reproduce from a flat copy with enlargement or reduction of size.

For courses in architecture, the preparation should include, in addition to the above, the drawing of simple pieces of architectural ornament (a Greek anthemium, a design of iron scrollwork, etc.).

For courses in engineering the preparation should include the copying of machinery details.

For courses in general science or in science for teachers, the preparation should include the copying of still life and simple plant forms.

### MANUAL TRAINING SCHOOL SUBJECTS.

#### SHOPWORK.

(Counting two units.)

Candidates who have been trained in manual-training schools or in commercial shops in the use of tools and in the ordinary processes employed in the working of wood or metal may receive admission credits for such work. They should submit letters from their teachers or employers, stating the character of the work in which they have been trained and the time given to it. The amount of credit will vary according to circumstances, but it will not exceed two units.

#### DOMESTIC SCIENCE AND DOMESTIC ART.

(Counting two units.)

Domestic Science and Domestic Art, studied in manual-training courses and duly certified, may be credited as College entrance subjects to the extent of two units.

### BUSINESS HIGH SCHOOL SUBJECTS.

Commercial subjects studied in the courses of business high schools or schools of similar grade, and duly certified may be credited as College entrance subjects as follows:

Accounting and Finance. (Counting one unit.)

Advanced Bookkeeping and Industrial Problems. (Counting two units.)

Business Organization. (Counting one unit.)

Commercial Law. (Counting one unit.)

Commercial History and Government. (Counting one unit.)

### ADMISSION TO ADVANCED STANDING.

Candidates for admission to advanced classes in any department are examined in all indispensable preliminary studies.



Due credit is given for properly certified courses of study pursued in other colleges and universities.

#### ADMISSION TO SPECIAL COURSES.

All the courses of instruction are open to students of suitable age and attainments who wish, without reference to any degree, to pursue special studies. Candidates must show that they are familiar with the subjects preliminary to the studies which they wish to pursue.

#### REQUIREMENTS FOR DEGREES.

The undergraduate degrees offered by the College of Arts and Sciences are Bachelor of Arts and Bachelor of Science in Chemistry. To be recommended for either of these degrees, the student must be registered for at least one academic year, must satisfy the admission requirements, and must complete at least sixty "hours" of undergraduate courses.

An "hour" of credit is one hour of recitation or lecture work a week or one laboratory period a week for one academic year. Except in the last year of the course no student taking less than six hours of work will be registered as a regular student. But no time limit for the course is prescribed and the degree is given when the total of prescribed and elective courses is completed.

One grade of special distinction is recognized in awarding the bachelor's degree. It is shown by inserting the words "With Distinction" on the diploma after the name of the degree. It is awarded under the following conditions:

"That the names of all students who have received a mark of at least B (90 per cent) on courses representing at least sixty (60 per cent) of all hours taken by them be submitted by the Dean to the Faculty of the Department in which the students shall be studying for a degree, after the completion of all final examinations in such students' final year of study for their degree;

"That the faculty, after separate consideration of each individual case, shall, if it see fit, recommend the awarding of the degree 'With Distinction' to students who shall have fulfilled the conditions above specified."

#### REQUIREMENTS FOR THE DEGREE OF BACHELOR OF ARTS.

To be recommended for the degree of Bachelor of Arts, the student must complete courses of study including a group of prescribed subjects, and aggregating at least sixty "hours."

There are six groups of prescribed subjects for the first two years of the college course. Every candidate for the degree of Bachelor of Arts elects one of these groups of prescribed subjects, and thereafter he is not permitted to change to another group except on condition that he fulfill the requirements of the group to which he changes.

The studies of the last two years of the course in the College of Arts and Sciences are elective, subject only to such administrative supervision as will insure the general consistency and the liberal character of the courses selected.

The scope of the six groups of prescribed subjects is a provision alike for the diversity in the subjects of the secondary school curriculum leading to a college course, and the needs of the various graduate and professional courses of study in the University for which the college course is a preparation.

Group I emphasizes Latin and Greek studies, and it would naturally be taken by students whose preparatory work has included four years of Latin. Group II emphasizes the Modern Languages, affording to students whose preparation has not included Latin, the humanistic influences of the literatures of the Modern Languages. Group III emphasizes Mathematics and the Natural Sciences, and would naturally be selected by the student whose college preparation has been scientific rather than literary. Group IV consists of such studies as would lead to the Teachers College, including important general culture courses and a considerable number of electives to be chosen from the subjects that the student expects to teach. Group V consists of such studies as would constitute needed preparation for the Department of Law or for the College of the Political Sciences. Group VI consists of the subjects that should be taken by those intending to enter the Department of Medicine. The six groups are as follows:

(NOTE: Whenever in the following groups French or German is taken, if it is elementary, the same language shall be continued the succeeding year.)

## GROUP I.

	Hours.
English .....	6
History .....	3
Languages <sup>1</sup> .....	9
Latin .....	6
Mathematics .....	3
Philosophy .....	3
	—
	30

<sup>1</sup> To be elected from Greek, French, German.



## GROUP II.

	Hours
English .....	6
French <sup>a</sup> .....	3
German .....	6
History .....	6
Mathematics or Science .....	3
Philosophy or Psychology.....	3
Romance Language <sup>a</sup> .....	3
	—
	30

## GROUP III.

	Hours.
English .....	3
History .....	3
Mathematics .....	6
Modern Languages .....	6
Psychology or Philosophy.....	3
Science .....	5
Electives .....	4
	—
	30

## GROUP IV.

	Hours.
English .....	3
French, German, Latin or Greek.....	3
History .....	3
Mathematics or Science.....	3
Psychology .....	3
Philosophy, Economics or History.....	2 or 3
Science or Languages.....	5 or 6
	—
	22 or 24

The remaining hours are elective from the subjects named with a maximum limitation of 10 units in any one subject.

<sup>a</sup> French shall be taken the first year; if this is elementary French the language shall be continued the second year; if not, there may be election from French or Spanish or Italian.

## GROUP V.

	Hours.
Economics .....	3
English .....	6
History .....	7
Mathematics .....	3
Modern Languages or Latin.....	6
Science .....	3
Electives .....	3
	—
	31

## GROUP VI.

	Hours.
English .....	3
German .....	3
History .....	3
Mathematics .....	3
Psychology .....	3
Sciences :	
Chemistry, 1, 3, 23.....	7
Physics, 1, 2.....	5
Biology .....	5
	—
	32

REQUIREMENTS FOR THE DEGREE OF BACHELOR  
OF SCIENCE IN CHEMISTRY.

*Freshman Year.*

Hours.	Hours.
Chemistry, 1, 2..... 5	French or German..... 3
English, 1 or 2..... 3	Graphics, 1..... 2
Mathematics, 3, 5, 7, or 6, 8, 10. 3	

*Sophomore Year.*

Chemistry, 3, 20..... 5	Mathematics, 9, 11, or 12, 14.. 3
French or German .....	Physics, 1, 2..... 5

*Junior Year.*

Architecture, 1 .....	1	Graphics, 2 .....	2
Chemistry, 4, 21, 23.....	6	Geology, 1 .....	2
French or German.....	3		

*Senior Year.*

Chemistry, 6, 24, 25, 27.....	11	Geology, 2 .....	2
Economics or History.....	2	Electives .....	2



## COMBINED COURSES.

The regular courses in the College of Arts and Sciences are so correlated with courses in the professional departments that the degree of Bachelor of Arts and the professional degree in Law may be obtained in six years, and in Medicine in seven years.

## SCHEDULE OF COURSES IN THE REQUIRED SUBJECTS FOR THE FIRST TWO YEARS.

	MON.	TUES.	WED.	THUR.	FRI.	SAT.
9	Math. 3, 5, 7	Phil. 1	Math. 3, 5, 7	Phil. 1	Math. 3, 5, 7	Phil. 1
10	Eng. 4 Fr. 1 Math. 9, 11 Psychol. 1	Eng. 1 Physics 2 Span. 1	Eng. 4 Fr. 1 Math. 9, 11 Psychol. 1	Eng. 1 Physics 2 Span. 1	Eng. 4 Fr. 1 Math. 9, 11 Psychol. 1	Eng. 1 Span. 1
11	Fr. 3 Ger. 3	Ger. 1 Physics 2 Hist. 3	Fr. 3 Ger. 3	Ger. 1 Physics 2 Hist. 3	Fr. 3 Ger. 3	Ger. 1 Hist. 3
1:30	Econ. 1 Graphics 1 Latin 2 Physics 3	Biol. Lab. Chem. 2	Econ. 1 Graphics 1 Latin 2 Physics 3	Biol. Lab. Chem. 2	Econ. 1 Latin 2 Physics 3	
2:30	Graphics 1 Greek 1 Hist. 1	Biol. Lab. Chem. 2	Graphics 1 Greek 1 Hist. 1	Biol. Lab. Chem. 2	Greek 1 Hist. 1	
3:30	Graphics 1 Hist. 2 Latin 1	Biol. Lab. Chem. 2	Graphics 1 Hist. 2 Latin 1	Biol. Lab. Chem. 2	Hist. 2 Latin 1	
4:50	Econ. 2 Eng. 2 Math. 4 Physics 1	Biol. 1 Chem. 1 Eng. 3 French 4 German 2 Math. 6, 8, 10	Econ. 2 Eng. 2 Math. 4 Physics 1	Biol. 1 Chem. 1 Eng. 3 French 4 German 2 Math. 6, 8, 10	Econ. 2 Eng. 2 Physics 1	Biol. 1 Chem. 1 Eng. 3 French 4 German 2 Math. 6, 8, 10
5:40	Geology 2 Hist. 5 Math. 12, 14	French 2 Geology 1 German 4 Hist. 4 Math. 2	Hist. 5 Math. 12, 14	French 2 Geology 1 German 4 Hist. 4 Math. 2	Geology 2 Hist. 5 Math. 12, 14	French 2 German 4

## PRIZES.

Only candidates for degrees may compete for these prizes.

STAUGHTON AND ELTON PRIZES.—The Staughton Prize, for excellence in the Latin Language and Literature, and the Elton Prize, for excel-

lence in the Greek Language and Literature, founded by the Rev. Romeo Elton, D.D., of Exeter, England, consist of two gold medals, annually awarded to the best scholar in each of these languages.

**RUGGLES PRIZES.**—The Ruggles Prizes, for excellence in Mathematics, founded by Professor William Ruggles, LL.D., consist of two gold medals, annually awarded upon examination to the best two scholars in Mathematics.

**MUNROE PRIZE.**—Professor Munroe offers a gold medal to that student from any Washington high school or the Manual Training School who shall attain the highest mark in Chemistry among those passing the entrance examinations, and shall remain in regular attendance for one year.

**CLASS OF '96 JAMES MACBRIDE STERRETT, JR., MEMORIAL MEDAL.**—This prize is annually awarded to that student taking Course 1 in Physics who obtains the highest average in a special examination on a given subject and in the writing of an essay on an assigned topic.

**DAVIS PRIZES.**—The Davis Prizes, for excellence in Elocution, founded by the Hon. Isaac Davis, LL.D., of Massachusetts, consist of three gold medals, annually awarded to the successful competitors in a public contest. Only members of the Senior Class are eligible to compete for these prizes.

**DAUGHTERS OF THE AMERICAN REVOLUTION PRIZES.**—These prizes, founded by the Daughters of the American Revolution of the District of Columbia, consist of two gold medals, awarded annually to the two students in the graduating class who, having maintained a high standing in the regular courses in Mediæval, Modern European, English, and American History during three years, shall produce the best essays upon an assigned topic of American history.

**THE THOMAS F. WALSH PRIZE.**—This prize established by Thomas F. Walsh, Esq., of Colorado, and based upon the income of one thousand dollars, consists of a gold medal awarded annually to that student of the graduating class, who having maintained a high standard in the regular classes of Mediæval, Modern European, English and American History, shall produce the best essay upon a designated period of the History of Ireland.

**E. K. CUTTER PRIZE.**—The E. K. Cutter Prize in English was founded by the late Marion Kendall Cutter. The endowment is a fund of one thousand dollars, the income of which is given annually as a prize "for excellence in the study of English." The prize will be awarded to that member of the graduating class whose record in English, combined with general excellence, shows most marked aptitude and attainment in English studies.

**WILLIE E. FITCH PRIZE.**—The Willie E. Fitch Prize, for highest excellence in all branches of Chemistry, founded by James E. Fitch, Esq.,



in memory of his son, consists of fifty dollars, which is awarded annually for the best examinations in Chemistry.

OLD AND MIDDLE ENGLISH PRIZE.—This is a prize of twenty-five dollars awarded to the student showing the greatest proficiency in English, 28.

THE GARDINER G. HUBBARD MEMORIAL PRIZE.—This is a prize in American History established by Mrs. Gertrude M. Hubbard, in memory of her husband, the late Gardiner G. Hubbard. The endowment is a fund of one thousand dollars, the income from which is to be given annually to that student of the graduating class, who has during four years maintained a high standing in the classes of American History, and who has produced the best essays upon subjects based upon a study of some assigned period of American history.

THE FUNK AND WAGNALLS STANDARD DICTIONARY PRIZE.—The Funk and Wagnalls Company offers an unabridged morocco-bound copy of the latest edition of the Standard Dictionary of the English Language, to that member of the Freshman Class who passes the best examination in English Rhetoric. A special examination for this prize is given in May. The examination covers the work in English Rhetoric for the entire year.

COLONIAL HISTORY PRIZE.—The Society of the Colonial Dames of America, Chapter III, offers annually a gold medal for excellence in American Colonial History. This prize will be awarded by the Professor of History for general excellence in this subject as shown by class standing, by special essays, and by such other tests as shall be prescribed.

#### PRIZE AWARDS 1907-08.

STAUGHTON PRIZE.....Catharine Agatha McAvoy  
ELTON PRIZE .....Catharine Agatha McAvoy  
RUGGLES PRIZE .....Bertha Birtwell  
MUNROE PRIZE.....Prescott Stearns Tucker

#### DAVIS PRIZES:

First Prize .....Justin Frank Seiler  
Second Prize .....William Cabell Van Vleck  
Third Prize .....Edward Percy Gates

#### DAUGHTERS OF THE AMERICAN REVOLUTION PRIZES:

Edward Percy Gates  
Pearl Ketcham Merritt  
THOMAS F. WALSH PRIZE.....William Cabell Van Vleck  
Honorable mention .....Pearl Ketcham Merritt  
E. K. CUTTER PRIZE.....Lulu Elizabeth Conner  
WILLIE E. FITCH PRIZE.....Sidney Forsythe Sherwood

## FRENCH COMPOSITION PRIZES:

First Prize .....	John Howard Dellinger
Second Prize .....	Ernst Otto Schreiber, Jr.
GARDINER G. HUBBARD MEMORIAL PRIZE.....	William Cabell Van Vleck
Honorable mention .....	Edward Percy Gates

## PRIZE AWARDS 1908-09.

STAUGHTON PRIZE.....	Vera Elsie Adams
ELTON PRIZE.....	Vera Elsie Adams
MUNROE PRIZE.....	Lenore Heald
CLASS OF '06 JAMES MACBRIDE STERRETT, JR., MEMORIAL PRIZE .....	Anna Melrose Browning

## DAVIS PRIZES:

First Prize .....	James William Berry
Second Prize .....	Joseph Ryland Curl
Third Prize.....	Tench Tilghman Marye

## DAUGHTERS OF THE AMERICAN REVOLUTION PRIZES:

May Thacher Cooke
Charlotte Raynsford Farrington

THOMAS F. WALSH PRIZE.....	Howard G. England
E. K. CUTTER PRIZE.....	James William Berry
WILLIE E. FITCH PRIZE.....	Aubrey Vail Fuller
GARDINER G. HUBBARD MEMORIAL PRIZE.....	Charlotte Raynsford Farrington
FUNK AND WAGNALLS STANDARD DICTIONARY PRIZE:	
	Jeanette Geschickter

COLONIAL HISTORY PRIZE OF THE SOCIETY OF THE COLONIAL DAMES OF AMERICA.....	Anne Lee Ettenger
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## SCHOLARSHIPS.

Applications for scholarships should be filed with the Dean not later than September fifteenth. All scholarships except the Kendall Scholarship and the University Scholarships are awarded for one year only, but they may be renewed. Any student holding a scholarship who fails to obtain a general average of 85 per cent on the work of any term or whose deportment is unsatisfactory will be reported to the President's Council, and in the absence of extenuating circumstances the scholarship will be revoked.

KENDALL SCHOLARSHIP.—The Kendall Scholarship, founded by the late Hon. Amos Kendall, is annually conferred on that student from any of the Washington High Schools or from the Manual Training School who attains the highest average in the June entrance examina-



tions. This scholarship continues throughout the undergraduate course, and the student holding it pays only the matriculation, library, laboratory and graduation fees.

UNIVERSITY SCHOLARSHIPS.—The University offers also six scholarships, each continuing throughout the undergraduate course, to be awarded annually to members of the graduating classes of the high schools of Washington and of the Manual Training School. The scholarships are divided, so far as the general averages will permit, among the several schools in proportion to the number of students in attendance upon each. Three scholarships are offered to young men and three to young women. No scholarship is awarded to a candidate whose examination average is below 80 per cent. Candidates for these scholarships take the June entrance examinations for the undergraduate course leading to the degree of Bachelor of Arts or the degree of Bachelor of Science, as they shall elect, and on the results of these examinations the scholarships are assigned. Holders of these scholarships are expected to pursue a regular course in the Department of Arts and Sciences leading to a degree. Such students pay only the matriculation, library, laboratory, and graduation fees.

DAVIS SCHOLARSHIP.—This is the income of a fund of one thousand dollars given to the University in October, 1869, by Hon. Isaac Davis, of Massachusetts.

MARY LOWELL STONE SCHOLARSHIP.—This scholarship was founded by a woman in memory of a woman student of science. It consists of a fund of two thousand dollars, the income from which is to be paid to needy women students of science in the University; it will be awarded by the President's Council.

MARIA M. CARTER SCHOLARSHIP.—This is the income of a fund of one thousand dollars given to the University in 1871 by Mrs. Maria M. Carter.

FARNHAM SCHOLARSHIP.—This is the income of a fund of one thousand dollars given to the University in 1871 by Mrs. Robert Farnham.

MINISTERIAL SCHOLARSHIPS.—Students in regular courses preparing for the Christian Ministry, and not yet ordained, are exempt from tuition charges. Such students pay the matriculation, library, laboratory, and graduation fees.

Students in regular courses who are children of clergymen financially dependent wholly or in part upon their parents are exempt from one-half of all tuition charges. Such students pay the matriculation, library, laboratory, and graduation fees.

#### DAVIS PRIZE SPEAKING.

The Davis Prize Speaking is held in University Hall on the Tuesday after the Easter holidays. The Davis Prizes were founded by Hon.

Isaac Davis, of Massachusetts, in 1847. The original endowment was five hundred dollars, "proceeds of which will afford three premiums, in cash or gold medals, of the value of \$5, of \$10, and of \$15 annually—these premiums or prizes to be distributed annually to such members of the Senior Class as shall have made the greatest progress in elocution since their connection with the College."

The award of these three prizes is determined by a public speaking contest, in which the participants deliver original orations. Senior students wishing to enter the competition should report to the Dean of the College not later than five weeks before the contest, and submit their orations not later than three weeks before the contest. The prizes are awarded by a committee consisting of three members, selected by the Executive Faculty of the College.

#### ENOSINIAN SOCIETY.

The Enosinian Society, a literary association formed by the students of Columbian College, to which any University student is eligible, meets regularly for the purpose of improvement in debate and composition.

This society had its beginning March 6, 1822, during the first session of Columbian College, when a number of students held a meeting "for the purpose of establishing a debating society." Two Enosinian prizes are given annually and are publicly presented at the Commencement. They are the following:

**DEBATERS' PRIZE.**—A gold medal given by the Society for proficiency in debate. This prize was awarded in 1908 to Edward Percy Gates. Honorable mention to William C. Van Vleck.

**GORE PRIZE IN PARLIAMENTARY LAW.**—A gold medal given by Prof. James Howard Gore for proficiency in parliamentary law. This prize was awarded in 1908 to William C. Van Vleck.

#### WOMAN'S BUILDING.

A Woman's Building was opened by the University in September, 1907. This is situated near the University Building, at 1538 I street. The lower floors contain lecture rooms, recitation, committee, and dining-rooms. The upper floors are a college dormitory for women, and college girls may obtain board and rooms at reasonable rates. The Woman's Building is the social centre for the young women of the College.

#### DEAN OF WOMEN.

The Dean of Women is an assistant to the Deans in the Department of Arts and Sciences, having general oversight of the women students. She will assist these students to find desirable boarding places and asso-



ciations in the city. She will advise them in University matters excepting those pertaining to the educational and general administrative functions of the Deans. She may be consulted in her office in the University Building at all times and she will exercise supervision over the social activities of the women students.

#### LUTHER RICE MISSION STUDIES.

Luther Rice founded Columbian College in 1821 with a missionary motive and a purpose to "diffuse knowledge both literary and religious through these United States." In remembrance of this motive and in coöperation with the various interdenominational missionary movements, the College instituted during the winter of 1907-08 four University Extension Courses in the study of Christian missions. These courses were planned to help leaders of classes in the churches and students of missions. They are all without fee and are open to men and women.

The following courses were given in 1908-09:

"The Why and How of Foreign Missions," conducted by Professor SMITH.

"The Moslem World," conducted by Assistant Professor MANNING.

"The Nearer and Farther East," conducted by Miss ELLIS.

"The Frontier," conducted by Professor WILBUR.

#### THE CHRISTIAN ASSOCIATION.

The student movement in Association work is represented by the Young Men's Christian Association of The George Washington University, which was organized in the fall of 1905. The Association plans and conducts religious work among the men of the University. The Association calendar includes Bible study clubs, a weekly chapel service, and occasional men's meetings.

Similar lines of religious work are conducted among the women students by the Young Women's Christian Association of Columbian College.

#### THE COLLEGE CHAPEL.

The College Chapel is held in the University Building on Monday, Tuesday, Wednesday, and Thursday, at 12 o'clock, throughout the academic year. These chapel services are conducted by the Faculty. On Friday at 12 o'clock there are two services, conducted respectively by the Young Men's Christian Association and the Young Women's Christian Association.

The Dean of the College will confer with students as they may desire on questions concerning their welfare and will coöperate with them in all ways to make the college life one of personal helpfulness.

## COLLEGE OF ENGINEERING AND MECHANIC ARTS.

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The session of 1909-1910 begins Wednesday, September 29, 1909.

Two houses, 1528 and 1530 I street, have been remodeled for use of the College of Engineering, and contain class-rooms, drawing-rooms, library and reading-room, cement laboratory and offices of members of the Faculty.

The Chemical, Physical, Electrical and Mechanical laboratories are in the main building of the University, corner of Fifteenth and H streets, N. W.

The office of the Dean is at 1528 I street.

### ADMISSION.

Every applicant for admission is required to present a testimonial of good character, and also a certificate of standing and regular dismissal from the school or college which he has attended or from the tutor with whom he has studied.

Candidates for admission to the Freshman Class may present certificates of admission or take an examination in the required subjects. Certificates, in lieu of any or all examinations, will be accepted from schools whose work is attested by well-prepared students admitted to the University in previous years, and from schools desiring coöperation with the University, that present evidence of affording adequate preparation in the required subjects. The Secretary of the University will, on application, furnish certificate blanks to the principals of such accredited schools.

The certificate of the College Entrance Examination Board will be accepted in so far as the subjects specified meet the requirements for admission.

The certificate of the Washington high schools covering all the requirements for admission admits students without examination to the courses of the Freshman year.

The certificates of all schools accredited to the University will be accepted in so far as they meet the requirements for admission.

*The general requirement for admission is a four-year high school course, or its equivalent, consisting of five recitations per week in four or more topics. The high school studies which may be presented in satisfaction of the requirements of admission are given on pp. 33-41 of this catalogue.*



Candidates for admission to the Freshman Class in the College of Engineering are required to present fifteen units for admission, distributed as follows:

	Units.
English .....	3
French or German.....	4
Plane and Solid Geometry.....	1½
Elementary and Advanced Algebra.....	1½
Plane Trigonometry .....	½
Chemistry .....	1
Physics .....	1
Electives .....	2½
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	15

NOTE.—The modern language requirement may be satisfied by presenting four units in one language, or two units in French and two units in German. Students who present four units in one language will study the other language two years in College. Students who present two units in French and two units in German will study each language one year in College.

#### ADMISSION TO ADVANCED STANDING.

Candidates for admission to advanced classes in any department are examined in all indispensable preliminary studies.

Due credit is given for properly certified courses of study pursued in other colleges and universities.

#### ADMISSION TO SPECIAL COURSES.

All the courses of instruction are open to students of suitable age and attainments who wish, without reference to any degree, to pursue special studies. Candidates must show that they are familiar with the subjects preliminary to the studies which they wish to pursue.

#### COURSES FOR A DEGREE.

Three courses of study are offered:

- I. CIVIL ENGINEERING.
- II. ELECTRICAL ENGINEERING.
- III. MECHANICAL ENGINEERING.

These courses occupy four years each, and lead to the degree of Bachelor of Science in Civil Engineering, in Electrical Engineering, and in Mechanical Engineering, respectively. Graduate courses of one year under the Faculty of Graduate Studies of the George Washington

University are open to those who receive the above degrees, and lead, respectively, to the degrees of Civil Engineer, Electrical Engineer, and Mechanical Engineer.

The courses in engineering are planned to give the student a thorough understanding of the theory underlying engineering practice, and such a practical knowledge of the instruments and methods of his particular profession as will enable him to apply the theory properly. In all the courses a thorough training in mathematics, pure and applied, and in drawing and descriptive geometry is required as the basis of the analytical and graphical study of engineering topics. Much stress is laid on the work in the drawing-room and laboratory. The work is planned to give him a thorough knowledge of principles upon which he may build, and by which he may be able to solve the new problems he meets in practice.

The work of the first year is the same for all students. It is taken up partly with general studies which have both an educational and a cultural value, and partly with work in mathematics and drawing which lays the foundations for the subsequent courses. In each of the other years there are studies taken in common by all engineering students; these studies including courses in English, in French and German, in pure and applied mathematics, in drawing and descriptive geometry, in chemistry and in physics. The requirement in French and German is intended to give the student an accurate reading knowledge of these languages, with particular reference to scientific literature.

Beginning with the Sophomore year, the Civil Engineering student enters upon his technical studies, continuing at the same time a number of topics of a more general character, and in the Junior and Senior years the work becomes yet more specialized. He begins with a general course in surveying and follows this with courses in railroad and highway location and construction. Theoretical hydraulics and hydraulic engineering receive careful and detailed treatment and much stress is laid on sanitary work, both in its theory and applications. A preliminary course in engineering materials and simple constructions in the Sophomore year is followed in later years by extended courses in mechanics of materials, and in the theory and design of structures in wood, steel, and masonry, in which are applied the knowledge gained in the courses in mechanics and graphic statics.

The courses for Electrical and Mechanical Engineering students are the same during the Sophomore year, and beside the general studies required of all engineering students include courses in advanced drawing and design and in kinematics of machinery. Shopwork begins in this year and continues until the end of the course for both classes of students, although the Electrical students give less time to it than do



the Mechanical students. The purpose of the work is not primarily to give manual skill, but to give such an understanding of tools and processes as will be of assistance in designing and in superintending. In the Junior year Electrical and Mechanical students take in common courses in steam engineering and on boilers and power plants.

The Electrical students begin their special work in electricity in the Junior year. Theoretical electricity is first studied, and is followed by engineering electricity, and by courses on direct current machinery. In the laboratory, experimental work in exact measurements is followed by the study of the dynamo. In the Senior year alternating current machinery is studied, both theoretically and practically; and courses on the applications of electricity and on light and power distribution are taken. In the drawing-room are studied related problems in design. Many hours are given to work in the electrical and general engineering laboratories.

The Mechanical Engineering students, in addition to the courses which they take in common with the electrical students, have courses in engine design, including steam and gas engines; in hydraulics and hydraulic machinery; and a course in electrical engineering, considering electrical machinery from the standpoint of one who is to use it rather than to design it.

The engineering courses are partly lecture and partly laboratory and drawing-room courses, the plan being to give the theory in the classroom, to illustrate the theory in the laboratory, and to have the student apply the theory, from given data, in the drawing-room.

#### REQUIREMENTS FOR A DEGREE.

The arrangement of the topics in each of the regular courses for a degree is shown below. The numbers following the names of subjects refer to the courses as given in the list of University Subjects on pages 76-117, to which reference should be made for more complete description.

#### COMMON TO ALL COURSES.

##### *Freshman Year.*

Chemistry, 1, 7.

General Chemistry and Qualitative Analysis.

English, 1 or 2.

Rhetoric.

French or German.

Graphics, 1.

Mechanical and Freehand Drawing.

Mathematics, 9, 11 or 12, 14.

Trigonometry; Analytic Geometry.

CIVIL ENGINEERING COURSE.

*Sophomore Year.*

Civil Engineering, 1, 4.  
 Surveying; Materials of Construction.  
 French or German.  
 Graphics, 8, 10.  
 Descriptive Geometry; Topographic Drawing.  
 Mathematics, 20 or 21.  
 Calculus.  
 Physics, 1, 2.  
 General Physics; Laboratory Physics.

*Junior Year.*

Applied Mathematics, 20, 21, 22.  
 Mechanics; Hydraulics; Mechanics of Materials.  
 Civil Engineering, 2, 3, 8, 22.  
 Railroad Engineering; Highway Engineering; Practical Astronomy; Theory of Structures.  
 Electrical Engineering, 6.  
 Industrial Engineering.  
 Geology, 2.

*Senior Year.*

Chemistry, 6.  
 Metallurgy.  
 Civil Engineering, 20, 21, 23, 24.  
 Masonry; Hydraulic Engineering; Theory of Structures; Sanitary Engineering.  
 Contracts and Business Law.  
 Mechanical Engineering, 12.  
 Steam Engineering.

ELECTRICAL ENGINEERING COURSE.

*Sophomore Year.*

French or German.  
 Graphics, 2, 8.  
 Advanced Mechanical Drawing; Descriptive Geometry.  
 Mathematics, 20 or 21.  
 Calculus.  
 Mechanical Engineering, 1, 4.  
 Mechanism; Shopwork.  
 Physics, 1, 2.  
 General Physics; Laboratory Physics.



*Junior Year.*

Applied Mathematics, 20, 21, 22.

Mechanics; Hydraulics; Mechanics of Materials.

Chemistry, 6.

Metallurgy.

Electrical Engineering, 1, 2, 3, 4, 5.

Elementary Electricity; Direct Current Machinery;

Electrical Engineering; Electrical Measurements;

Electrical Engineering Laboratory.

Mechanical Engineering, 5, 20.

Metal-work; Steam Engineering.

*Senior Year.*

Civil Engineering, 5, 6.

Surveying Instruments; Foundations.

Contracts and Business Law.

Electrical Engineering, 8, 21, 22, 23, 24, 26, 27.

Electrical Designs; Alternating Currents; Electrical Distri-

bution; Electrical Applications; Electrical Engineering

Laboratory; Electric Lighting; Electric Railways.

Mechanical Engineering, 10, 23.

Engineering Laboratory; Hydraulic Machinery.

## MECHANICAL ENGINEERING COURSE.

*Sophomore Year.*

French or German.

Graphics, 2, 8.

Advanced Mechanical Drawing; Descriptive Geometry.

Mathematics, 20 or 21.

Calculus.

Mechanical Engineering, 1, 4.

Mechanism; Shopwork.

Physics, 1, 2.

General Physics; Laboratory Physics.

*Junior Year.*

Applied Mathematics, 20, 21, 22.

Mechanics; Hydraulics; Mechanics of Materials.

Civil Engineering, 22.

Theory of Structures.

Mechanical Engineering, 5, 6, 9, 20.

Metal-work; Engineering Drawing; Engineering Lab-  
oratory; Steam Engineering.

*Senior Year.*

Chemistry, 6.  
 Metallurgy.  
 Civil Engineering, 5, 6.  
 Surveying Instruments; Foundations.  
 Contracts and Business Law.  
 Electrical Engineering, 7.  
 Dynamos and Motors.  
 Mechanical Engineering, 7, 10, 22, 23, 25, 28.  
 Machine Design; Engineering Laboratory; Internal  
 Combustion Motors; Hydraulic Machinery; Com-  
 pression and Refrigeration Machinery; Industrial  
 Management.

**PRIZES.**

Only candidates for degrees may compete for these prizes.

**RUGGLES PRIZES.**—The Ruggles Prizes, for excellence in Mathematics, founded by Professor William Ruggles, LL.D., consist of two gold medals, annually awarded upon examination to the best two scholars in Mathematics.

**MUNROE PRIZE.**—Professor Munroe offers a gold medal to that student from any Washington high school or the Manual Training School who shall attain the highest mark in Chemistry among those passing the entrance examinations, and shall remain in regular attendance for one year.

**CLASS OF '06 JAMES MACBRIDE STERRETT, JR. MEMORIAL MEDAL.**—This prize is annually awarded to that student taking Course I in Physics who obtains the highest average in a special examination on a given subject and in the writing of an essay on an assigned topic.

**DAVIS PRIZES.**—The Davis Prizes, for excellence in Elocution, founded by the Hon. Isaac Davis, LL.D., of Massachusetts, consist of three gold medals, annually awarded to the successful competitors in a public contest. Members of the Senior Class are eligible to compete for these prizes.

**SCHMIDT PRIZES.**—Mr. Fred. A. Schmidt offers a prize to the student who attains the highest standing in Descriptive Geometry, Trigonometry, and Analytic Geometry.

**MUTH PRIZE.**—Geo. F. Muth & Co. offer a set of drawing instruments to the student taking Advanced Mechanical Drawing who makes the highest average record in that subject and in the previous year's Mechanical Drawing.



## PRIZE AWARDS, 1907-08.

CLASS OF '06 JAMES MACHRIE STERRETT, JR., MEMORIAL PRIZE:

J. Ralph Fehr

THE FRED A. SCHMIDT PRIZE.....Irving Randolph Saum

## PRIZE AWARDS, 1908-09.

THE FRED A. SCHMIDT PRIZE.....Henry B. Myers

THE MUTH PRIZE.....William M. Leonard

## SCHOLARSHIPS.

Applications for scholarships should be filed with the Dean not later than September fifteenth. All scholarships except the Kendall Scholarship and the University Scholarship are awarded for one year only, but they may be renewed. Any student holding a scholarship who fails to obtain a general average of 85 per cent on the work of any term or whose deportment is unsatisfactory will be reported to the President's Council, and in the absence of extenuating circumstances the scholarships will be revoked.

The Kendall Scholarship and the University Scholarships are open to students in the College of Engineering. Detailed statements in regard to these scholarships are given on pages 49-50.

**HENRY HARDING CARTER SCHOLARSHIPS.**—These scholarships, founded by Mrs. Maria M. Carter in memory of her husband, Henry Harding Carter, consist of four scholarships of the annual value of fifty dollars each, and may be awarded to deserving students who are preparing for the civil engineering profession.

**ADMIRAL POWELL SCHOLARSHIPS.**—The Admiral Powell Scholarships were founded by the late Admiral Powell, U. S. Navy. The income from this endowment is for the "free education of such young men as may desire to take advantage of the said endowment by way of their preparation for entrance into the Naval Academy at Annapolis, Maryland or such as may fit them to become mates or masters in the Merchant Marine Service of the United States," and of "such apprentices as, having filled their time in the great steam manufactory establishments of the country, may apply for appointment from civil life in the Steam Engineer Department of the United States Navy." The number of scholarships awarded each year will be determined by the income from the endowment. Each scholarship will entitle the beneficiary to free tuition for one year. Such special courses of study are offered to each student as will give him the instruction needed to accomplish the purpose for which he is awarded the scholarship.

These scholarships are especially applicable to those who intend to come up for examination as warrant officers in the Engineer Depart-

ment of the Navy, or to those who desire to fit for responsible positions in the mercantile marine.

The subjects to be taken by a student will vary according to his preparation and according to the purpose for which he has been awarded the scholarship, but a year's work can be selected from the following topics:

	Hours.
Navigation and Nautical Astronomy.....	6
Algebra and Geometry.....	3
Trigonometry .....	1½
Mechanical and Machine Drawing.....	4
Meteorology .....	2
English .....	3
French .....	3
German .....	3
Spanish .....	1
International Law .....	1
Commercial Geography .....	½
Admiralty Law .....	3
Boilers and Power Plants.....	3
Measurement of Power.....	2
Dynamo theory .....	3
Dynamo testing .....	3



## COLLEGE OF THE POLITICAL SCIENCES.

### GENERAL STATEMENT.

The College of the Political Sciences offers systematic and scientific instruction in the various branches of the political sciences.

To undergraduate students it gives a broad, general education in the political sciences and in social, political, and economic history as a foundation for specialization in certain of the learned professions.

By means of its graduate courses, it gives a comprehensive and highly-specialized training in the political sciences, including government and administration, international law and diplomacy, economics, finance, and history, based upon the constant observation of facts at the capital of the nation and the critical appreciation and comparative study of political and social institutions.

This education is intended to give a training that will fit certain students for consular and diplomatic positions and for the public service of the United States, while imparting that general culture and equipment necessary for efficient citizenship and the intelligent grasp of public questions.

In Washington are collected the official records of the nation's history. Here are accumulated vast stores of information concerning the condition of the country and the problems confronting us as a people. As the capital of the nation, Washington furnishes the best, and in many instances the only, opportunity for studying the government in actual operation. Here is the National Congress, engaged in the work of practical legislation. Here sits the Supreme Court which gives to that legislation authoritative interpretation. Here are the great Executive Departments carrying on the business of government and working out the problems of administration. These together with the government of the District of Columbia are constant object lessons in political science. Here is the largest resident diplomatic body to be found anywhere in the world. Here are gathered representatives of the nation and of the press, creating a center of activity in all that appertains to the branches included within the scope of the College. Such an atmosphere for the student of the political sciences can be found nowhere else.

Among the additional advantages in these branches may be mentioned the Library of Congress, which contains 1,400,000 volumes and over 300,000 maps, manuscripts, etc., accessible to the students of the University; the Library of the Smithsonian Institution, enriched by its exchanges with all the countries of the civilized world; the Library of the State Department, containing more than 80,000 volumes, including nearly all the important publications relating to international law.

diplomacy, and political history; the Public Library of the District of Columbia, with 90,000 volumes; the United States Bureau of Education, rich in statistical material and foreign exchanges; the excellent working libraries of the Department of Commerce and Labor, the Bureau of Statistics, the Bureau of Trade Relations, the Bureau of American Republics, the Interstate Commerce Commission, the Census Bureau, and the Department of Agriculture.

Of these special facilities, as well as those which Washington enjoys as a center of general culture, the College of the Political Sciences is planned to take a thorough and systematic advantage. On the Faculty are not only men who are scholars and teachers, but also men whose successful experience in the public service and in the other branches they teach gives their instruction the greatest practical value.

#### ADMISSION.

The requirement for admission to the College of the Political Sciences is the completion of two years, or its equivalent (fifteen hours per week per year), of satisfactory undergraduate work in any college or university whose entrance requirement is a four-year high school course, or its equivalent, amounting to fifteen "units." (See requirements for admission to the College of Arts and Sciences.)

Students who have completed more than two years of work in other colleges or universities of approved rank and who have received credit for that work may be admitted to advanced standing, provided their work has been of such character as to be acceptable in lieu of courses in the College of the Political Sciences.

Students who wish to pursue work leading to a graduate degree must present an acceptable Bachelor of Arts degree, or its equivalent, granted by a college or university of approved standing.

The session 1909-10 begins September 29, 1909. The academic year is divided into two parts—the first half year, beginning September 29, and the second half year, beginning January 31. Since many courses commence with the beginning of the second half year, a student may usually enter the College at this time without being necessarily delayed in the completion of the work requisite for graduation. Students who enter the College at the opening of the second half year's work may be graduated at the annual Winter Convocation of the University on February 22.

#### ADMISSION TO SPECIAL COURSES.

All courses of instruction are open to persons of maturity and suitable attainments who wish to pursue special studies without reference to a degree. Such persons are designated as special students. Upon successfully passing the examinations in the courses pursued, such stu-



dents will receive certificates for work completed. But no one can be admitted to any course without satisfying the professor in charge that he has had previous training sufficient to carry on the work of the course with profit.

#### THE DEGREE OF BACHELOR OF ARTS.

The only undergraduate degree conferred by the University for work completed in the College of Political Sciences is the degree of Bachelor of Arts (A.B.) To be recommended for this degree the student (1) must have satisfied the entrance requirements, (2) must have been registered for at least one academic year, and (3) must have completed a total of sixty hours of class-room work (fifteen hours per week for four years). Thirty hours of this work may be taken in this College.

The Bachelor of Arts degree is granted by the University upon the recommendation of the Faculty of Undergraduate Studies. No student may receive the degree who has not been in residence at this University at least one academic year.

#### HIGHER DEGREES.

The higher degrees conferred by the University for work completed in the College of the Political Sciences are Master of Arts (A.M.), Master of Diplomacy (M.Dip.), and Doctor of Philosophy (Ph.D.). Candidates for any one of these degrees must possess a Bachelor of Arts degree, or its equivalent, granted by a college or university of acceptable rank.

Candidates for admission to courses for higher degrees must present the diplomas they hold, or certificates that they have received such diplomas, to the Secretary of the University, and obtain from him application blanks. When properly filled and signed, these applications are to be submitted to the Dean of the Faculty of Graduate Studies, together with catalogues of the institutions from which they hold their degrees and certificates of their course of study at such institutions. All such applications should be accompanied by testimonials as to character and scholarship.

Candidates for the degree of Master of Diplomacy (1) must possess a knowledge of two modern languages other than English, (2) must complete twenty-four hours (twelve hours per week for two years) of class-room work, and (3) must prepare a satisfactory dissertation showing original research and investigation. But applicants for this degree who, in the attainment of their Bachelor of Arts degree, have completed

the equivalent of twelve acceptable units in economics, political science, and public law may be credited with not more than twelve units toward the degree of Master of Diplomacy. Candidates for the Master of Diplomacy degree pursue their work under the general direction of the Dean of the College of Political Sciences. This degree is awarded by the University upon the recommendation of the Faculty of the College of Political Sciences.

For an outline of the requirements for the degree of Master of Arts and Doctor of Philosophy and for the regulations in regard to dissertations, the candidate is referred to page 26.

Students who become candidates for the Master of Arts or the Doctor of Philosophy degree pursue their work under the general direction of the Dean of the Faculty of Graduate Studies. These degrees are awarded by the University upon the recommendation of the Faculty of Graduate Studies. No student may receive any higher degree who has not been in residence in this University at least one academic year.

#### LIBRARY.

The library of the College of the Political Sciences contains several thousand volumes carefully selected with special reference to library work in connection with the courses of instruction offered. It affords a practical work-room for the use and convenience of students and is open during the day and evening. The main library of the University and the law library are in adjacent buildings. The Library of Congress, the Carnegie Library, and the Library of the Department of State are easily accessible for extended research work and special investigation.

#### COURSES OF STUDY.

The courses offered in this College are grouped in five sections: (1) Political Science, (2) International Law and Diplomacy, (3) Economics and Finance, (4) Commerce and Transportation, (5) History. The courses in each section are classified in two divisions: (1) for undergraduates and graduates, (2) for graduates. The first division includes those courses which, while primarily for undergraduates, may nevertheless be pursued with profit by graduate students who have not had equivalent courses in their undergraduate work. The second division embraces courses which are offered primarily for graduate students, although undergraduates specially fitted to pursue the work may occasionally be admitted to such courses with the consent of the Dean and of the professor in charge.



Courses in this College are open to students in Columbian College and the Department of Law with the consent of their respective Deans. Students in the College of the Political Sciences may, likewise, with the consent of the Dean of the College, elect courses in Columbian College and the Department of Law.

Lectures begin at 8.00 a. m. and close at 6.30 p. m.

## TEACHERS COLLEGE.

The session of 1909-10 begins Wednesday, September 29, 1909.

The Education Building, containing lecture and seminar rooms, the Psychological Laboratory, and the Department Library, is situated at 1534 I street, N. W.

The office of the dean is in this building.

### GENERAL STATEMENT.

The purpose of the Teachers College is to provide (a) collegiate training for teachers, (b) instruction in education as a department of science.

While research in the field of educational science, and the provision of courses which may be taken mainly for their culture value, are important features of the work of any university department of education, the principal aim of the Teachers College is the practical and professional one of training teachers. In this large field, the Teachers College will restrict itself for the present mainly to the preparation of teachers for the higher grades of instruction and administration. The many excellent normal schools and training colleges are preparing teachers for efficient service in the primary and grade schools; but the need of the broad and substantial training of a college course as a preparation for high school teaching, and for responsible administrative positions, is now very generally admitted. Up to the present time, it has too often happened that the college graduate who wishes to teach has been without any knowledge of the theory and practice of his vocation. The George Washington University, in common with many leading institutions, has endeavored to remedy this defect in the college training of the teacher by establishing a department for the systematic study of education in all its theoretical and practical aspects.

The aims of the Teachers College may, accordingly, be summarized as follows:

- (a) To promote the knowledge of educational science.
- (b) To fit students for the higher positions in the public school service.
- (c) To secure to teaching the rights and prerogatives of a profession.
- (d) To aid in raising the standards of educational practice, and so to increase the efficiency of public education.

### ORGANIZATION.

With a view to combining to the best advantage a general college education with adequate professional training for teaching, the work of the Teachers College rests upon a preparatory course of two years duration in the College of Arts and Sciences. The prescribed studies of this



course, given below, are stated as "Group IV" (see page 44) in the announcement of the curricula of the first and second years. The two years of professional study in the Teachers College consists of a minimum of ten units of required technical courses in education and twenty units of electives, the major part of which should be devoted to the subjects which the student wishes to teach.

Inasmuch as a large number of teachers in service are without college degrees, and a still larger number desire to supplement their professional training by taking special courses, the courses of instruction have been arranged to meet the needs both of undergraduate students and of teachers in service. The required courses constituting the prescribed work in education are given both in the morning and in the late afternoon hours, and are, therefore, easily accessible to both students and teachers from the schools. The hours are also convenient for persons employed in the Departments of Government. The completion of the curriculum of Group IV in the College of Arts and Sciences, and the prescribed and elective courses in the Teachers College, is recognized by the granting of a Bachelor of Arts degree and a Teacher's Diploma.

Opportunity is also offered to graduate students to pursue a major or minor in Education, leading to the granting of a Teacher's Diploma in conjunction with a Master's or a Doctor's degree. In this connection attention may be called to the exceptional facilities existing in Washington for graduate study particularly in the history of education in the United States. The extensive collections of the Congressional Library and the library and archives of the United States Bureau of Education furnish unrivalled opportunities in this department.

#### ADMISSION.

Applicants for admission as regular students, *i. e.*, as candidates for a degree, must present certificates showing that they have completed the first two years of the prescribed curriculum in the College of Arts and Sciences, or an equivalent course in some other institution. Teachers in service, however, and graduates of Normal Schools, who are entitled to advanced standing, may be registered in Teachers College, and conditioned in the prescribed studies in which they may be deficient, until they shall have completed those courses. But persons desirous of taking one or more of the professional courses, without becoming candidates for a degree, may be admitted as special students on the presentation of satisfactory evidence that they are qualified to pursue the work to advantage. Students who have begun their college course in another Group than that entitling them to admission to Teachers College may transfer their registration to Group IV, provided that they complete all the prescribed work of the latter Group.

**ADMISSION TO ADVANCED STANDING.**

Students who have pursued courses of study in other colleges or universities of approved rank will receive advanced credit for such work on the presentation of certificates.

Graduates of approved Normal Schools, Training Colleges, or Technical Schools, and teachers of experience who have studied privately, will be admitted to such advanced standing as the courses they have pursued warrant.

**THE TEACHERS COURSE.**

The full college course for the training of teachers comprises therefore the following educational divisions, the first two made up of prescribed studies and of qualified electives, the third of free electives:

(a) A foundation of 22-24 hours of general culture studies, pursued in the College of Arts and Sciences, and prescribed in accordance with the view that a teacher's preparatory training should omit no one of the principal elements of culture, supplemented by 6 to 8 hours elective among the same subjects, in order to make the curriculum adaptable to the varying needs of individuals.

(b) A minimum of ten hours of professional training courses.

(c) Twenty free elective hours of special information courses and further training courses.

In recognition of the professional training and the high number of prescribed hours of study, graduates of the Teachers College will receive, in addition to the Bachelor of Arts degree, a Teacher's Diploma. Both are conferred by the University.

An "hour" of study represents one hour of recitation or lecture work per week for one academic year, or its equivalent.

**GRADUATION.**

To be recommended for a Bachelor of Arts degree and a Teacher's Diploma, the student must complete courses of study aggregating at least sixty hours. Thirty-two or thirty-four of these hours are prescribed studies, and the remainder are electives. The prescribed studies are the following:

(a) In general culture subjects:

	Hours.
English .....	3
Mathematics or Science.....	3
French, German, Latin or Greek.....	3
History .....	3
Psychology .....	3
Philosophy, Political Economy or History.....	2 or 3
Languages or Sciences .....	5 or 6



(b) In professional subjects:		Hours.
History of Education .....		2
Principles of Education } .....		3
Educational Psychology }		
Child Study, or		2
Principles of Secondary Education }		
Classroom Management and Supervision, or }		1
School Administration }		
Observation and Practice Teaching .....		2

(For further definition of these requirements, see the introductory note under Courses of Instruction.)

The electives should be chosen with direct reference to the subjects which the student wishes to teach.

#### THE TEACHER'S DIPLOMA.

The Teacher's Diploma is granted in connection with the Bachelor of Arts degree, upon the fulfilment of the following conditions: *a.* The student must have satisfactorily completed the courses of study defined in the preceding paragraph. *b.* He must, in the judgment of his instructors, also possess other qualifications essential to success in teaching.

The Diploma is also given in connection with higher degrees, provided a graduate student has taken a major or minor in Education, and has also satisfied the requirements *a* and *b* above, or in lieu of *a*, has completed an equivalent amount of pedagogical and other work in another institution.

#### UNIVERSITY SCHOLARSHIPS.

Holders of the Kendall Scholarship and the University Scholarships may register in Teachers College on the same terms as in other departments of the University. For particulars see page 49.

#### PRACTICE TEACHING.

Ample opportunity will be afforded for practice in teaching by (a) attendance upon observation classes conducted by experienced teachers, and (b) actual practice in teaching under the supervision and subject to the criticism of teacher critics.

#### EXPERIMENTAL WORK.

A psychological laboratory for introductory experimental work occupies the entire fourth floor of the Education Building. It comprises an instrument room, a general laboratory, a research room, a

dark room for experiments on vision, and a photographic dark room. The equipment is specially adapted to the investigation of problems of interest to students of education. The advanced courses in experimental psychology are conducted at the Government Hospital for the Insane. These courses are modified each year to meet the requirements of the students electing them, and the facilities and equipment of this laboratory are in many respects unrivalled.

The school system of a large city, moreover, offers abundant opportunity for observation, and for the statistical study of methods and other practical educational problems.

#### TEACHERS COLLEGE LIBRARY.

A commodious room on the ground floor of the Education Building has been devoted to the purposes of a department library. The library is supplied with the most important reference books and periodicals in Education, Psychology, and Philosophy, together with the principal Reports, etc. The reading room is open from 9 a. m. to 12 m. and from 1.30 p. m. to 6 p. m., each day of the University calendar year. In addition, books may be withdrawn over night and from Saturday to Monday. For a statement of other library facilities see "University Library," page 13, and "Libraries," page 15.

#### TEACHERS APPOINTMENT BUREAU.

The Teachers College maintains a Teachers Appointment Bureau for the purpose of aiding students who are studying, or have studied, in the Teachers College, or in the College of Arts and Sciences, to secure positions as teachers. This service is performed gratuitously, in the interest both of students and of superintendents of schools and boards of education wishing to employ teachers. Communications should be addressed to the "Teachers Appointment Bureau," Teachers College, The George Washington University.



## DIVISION OF ARCHITECTURE.

### ADMISSION.

Each applicant for admission is required to present a testimonial of good moral character, and also a certificate of standing and regular dismissal from the school or college which he has attended or from the tutor with whom he has studied.

Candidates for admission to the Freshman Class may present certificates of admission or take an examination in the required books and subjects.

*The requirement for admission is a four-year high school course, or its equivalent, amounting to fifteen "units." A unit is a subject studied one school-year of five periods a week. Seventy-five such periods or "counts" make the fifteen-unit requirement.*

*These fifteen units must include English, 3 units; Mathematics, 2 units; and one of the following languages: Latin, 4 units; Greek, 3 units; French, 2 units; German, 2 units; or Spanish, 2 units. The remainder of the requirement is elective and may be satisfied in general by any high school subject approved by the College Entrance Examination Board. Subjects that will be accepted are described on pages 33-41 of this catalogue.*

### REQUIREMENTS FOR THE DEGREE OF BACHELOR OF SCIENCE IN ARCHITECTURE.

To be recommended for the degree of Bachelor of Science in Architecture the student must be registered in the Division of Architecture for at least one academic year, he must satisfy the admission requirements, and must complete the prescribed course for the degree. This is a four-year course. General culture studies are pursued through the first two years, about half of the time being devoted to them. The rest of the course is devoted to architectural work. The unit of credit is one hour of recitation or lecture per week throughout the academic year. Laboratory hours count one-fourth unit each.

#### *First Year.*

	Hours.
English .....	3
French, Italian, or German.....	3
Science .....	3
Architectural Drawing (3).....	3
Shades, Shadows, and Perspectives (4).....	2
Freehand Drawing (2).....	1
	15

<i>Second Year.</i>	Hours.
English .....	3
French, Italian, or German.....	3
Science .....	2
Rendering, Design (3).....	3
Freehand Drawing (6).....	2
History of Architecture (20).....	2
	<hr/>
	15

<i>Third Year.</i>	
Mechanics of Materials (First term).....	3
Graphic Statics (Second term)	
Building Construction (21).....	2
History of Architecture (32).....	2
Pen and Ink Rendering (27) or Water Colors (34)....	1
Design and Sketch Design (25).....	4
Drawing from the Antique (26).....	1
Water Colors (34).....	2
	<hr/>
	15

<i>Fourth Year.</i>	
Design and Sketch Design—Thesis (27).....	4
Sanitary Engineering .....	2
History of Painting and Sculpture (31).....	1
Building Construction (33).....	2
Drawing from Life (35).....	1
Water Colors (34).....	2
History of Architecture (23).....	2
Office Practice (36).....	1
	<hr/>
	15

A special course may be arranged for qualified students who wish to take the purely technical work of the Architectural course. Special students to receive a certificate on the satisfactory completion of the course as outlined below.

<i>First Year.</i>	
Architecture (3) .....	3
Shades and Shadows (4).....	2
Freehand (2) .....	2
Construction (21) .....	2
	<hr/>
	9



<i>Second Year.</i>		Hours.
Architecture (5) .....	3	
Construction (33) .....	2	
History (Classical and Mediæval).....	2	
Freehand (6) .....	2	
Pen and Ink (27) or Water Colors (34).....	1	
		<hr/>
		10
<i>Third Year.</i>		
Architecture (25) .....	3	
History (Renaissance), (23).....	2	
History (Painting and Sculpture, or Archæology).....	1	
Water Colors (34).....	2	
Advanced Freehand .....	2	
		<hr/>
		10

In addition, before the certificate will be awarded the student must show that he has satisfactorily completed courses 26, 35, and 39.

#### PRIZES.

The Washington Architectural Club offers membership in the Club as a prize in Architecture. In 1903-04 this prize was awarded to Charles R. Lombard; in 1904-05 to W. H. I. Fleming; in 1905-06 to S. Peter Wagner; in 1906-07 to Reginald W. Geare; in 1907-08 to Meade Bolton with honorable mention to Carrington Foster; in 1908-09 to Nevell S. Buckingham with honorable mention to Warner Addison Ebbetts.

The Architectural League of America offers an annual Traveling Scholarship in Architecture, value \$1200 to students and draftsmen in Architecture under 35 years of age. All architectural students in the University, who are members of the George Washington University Architectural Club are eligible to compete for this prize.

The following prizes are open to students taking Beaux Arts problems:

#### PARIS PRIZE.

This prize, conducted by the Society of Beaux Arts Architects, gives to the winner, by authorizations of the French Government, the privilege of following the lectures and of taking part in the competition of the first class in Architecture at the École des Beaux Arts of Paris; he must, however, have already successfully pursued studies corresponding to those prescribed in the second class at that institution, for which condition he will be allowed six months to qualify. The winner, moreover,

receives a stipend of two hundred and fifty dollars quarterly during his stay abroad, which should last two and one-half years.

Competitors must be under twenty-seven years of age.

#### WARREN PRIZE.

This consists of two prizes of fifty dollars and twenty-five dollars, respectively, for the most successful solution of a problem in planning.

#### PUPIN PRIZE.

Two prizes of fifty dollars and twenty-five dollars, respectively, are offered by Prof. PUPIN, of Columbia University, for the best designs for the ornamental treatment of some scientific appliance.



## Department of Arts and Sciences.

### COURSES OF INSTRUCTION.

#### UNIVERSITY SUBJECTS.

University Subjects are divided into three sections, in accordance with the following requirement of an ordinance adopted by the Board of Trustees, October 12, 1902:

#### ARTICLE IV.—*Development of University Subjects.*

SECTION 1. Subjects shall be divided into three sections, as follows:

(1) The fundamental section, covering two years' work; this section to be assigned to students in the general-culture courses.

(2) The advanced section, not exceeding three years; this section to be assigned to students specializing for literary, scientific, professional, or industrial pursuits.

(3) The original research section; this section to be assigned to students pursuing a subject for discovery and broader culture.

First-section courses can be taken by third- or fourth-year students only by permission of the Dean and the professor in charge of the subject. They may sometimes be recommended to graduate students, but are not counted toward the higher degrees. The courses in the second section are in general for advanced students, candidates for the Bachelor's degree; they serve, however, with additional work as minors for the higher degrees, provided they have not already counted toward a degree. They may be taken by students in the second year of their course only by special permission of the professor in charge. The courses in the third section are in general for graduate students only, candidates for one or other of the higher degrees. They are open to undergraduates only on the recommendation of the instructors, and no undergraduate student shall take in one year more than one course in the third section. When an announced course has not been applied for by at least three students, candidates for a degree, the instructor may withdraw the course. First-section courses are numbered 1 to 19, inclusive; second-section courses from 20 to 39, inclusive; third-section courses are numbered on from 40. The number of hours, unless otherwise specified, indicates hours per week throughout the year. The unit of credit is one hour of recitation or lecture work per week for one academic year; laboratory hours in Chemistry and Architecture count

one-third unit each, in other subjects one-half unit each. Sixty units of credit is the minimum requirement for the Bachelor's degree. Laboratories and drawing-rooms will be open from 9 a. m. till 10 p. m., with competent assistants in charge to direct students. No student is admitted to a course unless he fulfills all of the preliminary requirements for that course, or otherwise satisfies the instructor that he is prepared to pursue it. Every student must make his election of courses so as to avoid conflict between the hours appointed for recitations.

### ANATOMY.

D. KERFOOT SHUTE, A.B., M.D.....Professor

#### *Third Section. Primarily for Graduates.*

40. Anatomy of the Nervous System.—The nervous system is investigated in typical animals of the different classes, especially with the view of gaining some insight into the phylogeny of the central nervous system in man. The growth of the brain and its physical characters as related to intelligence are investigated. The histology and embryology of the central nervous system and the sense organs are studied. A history of the guiding conceptions in neurology is to be acquired. The course is designed to inculcate students of anatomy, medicine, and psychology with a sound knowledge of the architecture and functions of the nervous system of man. Two hours. Professor SHUTE.

### ARCHITECTURE.

PERCY ASH, B.S.....Professor  
ALBERT BURNLEY BIBB.....Professor  
CHAS. MASON REMEY.....Assistant Professor  
W. H. I. FLEMING, B.S.....Assistant  
DELOS H. SMITH, B.S.....Assistant

Criticisms in design are regularly given by practicing architects, in addition to the regular corps of instructors.

#### *First Section. Primarily for Undergraduates.*

1. Freehand Drawing. This course consists of drawing, in charcoal, of cubes, cones, etc. Professor BIBB.
2. Freehand Drawing. For architectural students primarily. This course begins with drawing, in charcoal, of cubes, cones, etc., and is followed by a series of drawings from architectural casts. Mon. 4.50, Wed., 10 to 12 and 5.40. Professor BIBB.
3. Architectural Drawing and Elementary Design. This course includes the study of the Five Orders of Architecture, the use of India



ink, and water-color rendering. Lectures on the Five Orders on Tuesday, at 4.50, and at least eleven additional hours in the drafting-room. Professor ASH.

4. Shades, Shadows, and Perspectives. A course in orthographic projections, shades, shadows, and perspectives. *Tues. and Fri.*, at 11 and 5.40. Assistant Professor REMEY.

5. Rendering and Design. In this course the instructions in India ink rendering and the use of water colors given in the first year are continued. At least twelve hours each week are devoted to the problems in design. Six regular problems and five sketch problems constitute the course in design. Criticism, by Professor ASH and Assistant Professor REMEY.

6. Freehand Drawing. The drawing from architectural casts in both charcoal and pencil continues the work begun in the first year, and is intended to fit the student for his subsequent freehand drawing from the antique. *Mon.* 4.50, *Wed.* 10 to 12 and 5.40. Professor BIBB.

*Second Section. For Undergraduates and Graduates.*

20. History of Architecture. History of Classical and Early Christian architecture. Illustrated. Two lectures per week. *Tues., Fri.*, at 4.50. Professor BIBB.

21. Building Construction. Frame construction and interior finish. Professor ASH.

22. Sanitary Engineering of Buildings. One hour. (Course to be arranged.)

23. History of Architecture. History of Renaissance architecture. Illustrated. Two lectures per week, and one additional hour for research. *Mon., Fri.*, at 4.50. Professor ASH.

24. Pen and Ink Rendering. A study of the works of the best draftsmen, with practice in the use of the pen as a means of architectural expression. *Th.*, 10 and 4.50. Professor ASH.

25. Design and Sketch Design. This course embraces problems in plan, in archæology, and in sketch design. Three problems in archæology, three plan problems, and five sketch problems constitute the course. The student is required to spend at least sixteen hours in the drafting-room each week. Criticism, by Professor ASH and Assistant Professor REMEY.

26. Drawing from the Antique. To be eligible for this course the student must have passed satisfactorily Course 6. He is required to devote at least four hours per week to working from the antique in the Corcoran Gallery of Art.

27. Design and Sketch Design. Thesis. Problems of an advanced character are assigned to the student during the first term. Three ad-

vanced problems and three sketch problems are required of the student in addition to his thesis. The three months preceding graduation are devoted to the production of the thesis designs, the subject for the thesis being selected by the student. The student is required to spend sixteen hours each week in the drafting-room. Criticism is given three times a week by Professor ASH and Assistant Professor REMEY.

28. Modeling (Architectural). This course will be arranged and an instructor appointed at an early date.

29. History of Art, a course in the history of sculpture, architecture, and painting. (a) Greek and Roman. First half-year. (b) Renaissance and Modern. Second half-year. *Mon., Wed., Fri., at 1.30.*

30. History of Painting and Sculpture. This course will comprise a series of illustrated lectures on painting and sculpture. Professor BIBB.

31. History of Mediæval Architecture. Two lectures and one hour for research per week. Professor BIBB.

32. Building Construction. Masonry, cements, foundations, soils, etc. *Mon., at 5.40, Tues., 10. Wed., 4.50, Th., 10.* Professor ASH.

33. Water Colors. *Th., at 4.50 and 5.40.* Professor BIBB.

34. Drawing from Life. Six hours per week at the Corcoran Gallery of Art.

35. Office Practice. A course of practical planning and detailing. Four hours per week. Professor ASH.

36. A special course in design will be given, consisting of six regular and five sketch problems. This course is intended to prepare students for the Beaux Arts problems. Criticisms, by Professor ASH and Assistant Professor REMEY.

37. In this course the problems prepared by the New York Society of Beaux Arts Architects will be offered to the students, and the judgments will be made by the jury in New York City under the rules of the society. Criticisms, by Professor ASH and Assistant Professor REMEY.

38. Summer Work. Each architectural student is required during the summer vacation to make at least twenty-four sketches from nature, or to do an equivalent amount of work; namely, four weeks in an architect's office, or the measured drawings of an existing monument of architecture.

### *Third Section. Primarily for Graduates.*

40. Composition as applied to architecture.

41. Advanced design.

### ASTRO-PHYSICS.

FRANK HAGAR BIGELOW, A.M., L.H.D. .... Professor  
FREDERICK E. FOWLE, JR. .... Lecturer



*Third Section. Primarily for Graduates.*

- 40. Solar Physics. Professor BIGELOW.
- 41. Cosmical Electricity and Magnetism. Professor BIGELOW.
- 42. Terrestrial Magnetism. Professor BIGELOW.
- 43. Meteorology. Professor BIGELOW.
- 44. A lecture course on the astro-physical instruments employed in modern research. To be taken in connection with Courses 40 and 41. Mr. FOWLE.

**BACTERIOLOGY AND PATHOLOGY.**

JOSEPH J. KINYOUN, M.D., Ph.D.....Professor

*Third Section. Primarily for Graduates.*

- 40. Bacteriology. Special studies and practical research work. Professor KINYOUN.

**BIOLOGICAL SCIENCES.**

THEODORE NICHOLAS GILL, M.D., Ph.D., LL.D.....Professor  
 PAUL BARTSCH, M.S., Ph.D.....Professor  
 ALBERT MANN, A.M., Ph.D.....Professor

**ZOOLOGY.***First Section. Primarily for Undergraduates.*

- 1. Systematic Zoölogy. I. Invertebrates. This includes lectures and laboratory work. The lectures in their scope cover all the branches of Invertebrates, and correlated with these lectures is the study and dissection of typical specimens in each group. This course is intended to familiarize the student with biological characters, classificatory laws, and the general principles of evolution. Lecture, one hour; laboratory, two two-hour periods. Professor BARTSCH.
- 2. Systematic Zoölogy. II. Vertebrates. This includes lectures and laboratory work. The lectures will cover the various branches of Vertebrata and correlated with these is the study and dissection of typical specimens of each group. Open only to students having completed Course I. Professor BARTSCH.
- 3. Biology. Introductory course. The physiology, morphology, and natural history of type forms, selected from both the plant and animal kingdoms, are studied in the laboratory and lecture-room. Drawings are carefully made of gross and microscopic anatomy. During part of the second term slides and embryos of the frog or chick are prepared and studied. Lectures are given on the biological theories; and trips are made to the museums and collecting grounds.

*Second Section. For Undergraduates and Graduates.*

20. Practical Zoölogy. A lecture course illustrated with lantern slides and demonstrations. In this course only beneficial and injurious animals of all classes will be considered, especial stress being laid upon the problems of preservation and extermination. The course aims to expound the economic side of zoölogy. Open to all students. One hour. Professor BARTSCH.

23. Ornithology. A systematic course embracing lectures and laboratory work. The lectures are illustrated with lantern slides, showing the home life of birds. The laboratory work consists in classifying bird skins, of which the University possesses an excellent series. Special attention is directed to the study of the birds of the District of Columbia, and frequent field excursions are made to familiarize the student with the haunts and habits of these forms. Lecture, one hour; laboratory, one two-hour period. Professor BARTSCH.

Laboratory courses in histology and physiology will be arranged for competent students.

*Third Section. Primarily for Graduates.*

40. A general course of lectures on the principles of zoölogy, including a consideration of the philosophy, the methods of investigation, and the systems of zoölogy as determined by comparative anatomy. The lectures are supplemented by work in the laboratory, embracing histology, microtomy, and dissection. The student is required to take up some subject or group for original investigation. Professor GILL.

The collections of the United States National Museum and the Smithsonian Institution are consulted in connection with all these courses.

THE JAMES CRICHTON COLLECTION.—An accession of value and interest to the Zoölogical laboratory is a recent gift to the University of a collection of butterflies, made by Mr. James Crichton. It is given to the University by the friends of Mr. Crichton as a memorial to him, and it is known as the "James Crichton Collection."

## BOTANY.

*Third Section. Primarily for Graduates.*

40. Original investigations in (a) Economic Botany, *Materia Medica*, etc.; (b) Parasitism and Monstrosities; (c) Researches in Physiology of single groups; (d) Comparative Organography. Professor MANN.

## CHEMISTRY.

CHARLES E. MUNROE, Ph.D. .... Professor  
FRANK WIGGLESWORTH CLARKE, Sc.D. .... Professor of Mineral Chemistry



HARVEY W. WILEY, Ph.D., M.D.	Professor of Agricultural Chemistry
EDWARD G. SEIBERT, M.D.	Assistant Professor of Chemistry
N. MONROE HOPKINS, Ph.D.	Assistant Professor
EDWIN A. HILL, Ph.D.	Assistant Professor
THOMAS M. PRICE, Ph.D.	Assistant Professor
I. K. PHELPS, Ph.D.	Assistant Professor of Physiological Chemistry
OTIS D. SWETT, M.S.	Instructor
HOWARD B. LEWIS, B.A.	Teaching Fellow

*First Section. Primarily for Undergraduates.*

1. General Chemistry. A series of illustrated lectures, accompanied by recitations and exercises, on theoretical, inorganic, organic, and technical chemistry. *Tu., Th., Sat.*, at 4.50. Professor MUNROE, Mr. SWETT.

2. Laboratory Practice. A laboratory course for the study of the principles of chemistry and the methods of conducting chemical experiments. Two three-hour periods. *Tu., Th.*, at 1.30. Professor MUNROE, Assistant Professor HILL, Mr. SWETT, Mr. LEWIS.

3. Preparation and Study of the Properties of Chemical Substances. A laboratory course. Two three-hour periods. *Tu., Th.*, at 1.30. Professor MUNROE, Mr. SWETT, Mr. LEWIS.

4. Assaying and Metallurgy of the Precious Metals, carried on by the methods used by the Government assayers, the laboratory being fitted up on the plan of that of the United States Mint. Twelve hours, for three months. Professor MUNROE, Mr. SWETT.

5. Lectures on the Principles of Analysis. One hour. Professor MUNROE.

6. Metallurgy of Iron and Steel. A course of lectures and readings. *Tu.*, at 5.40. Professor MUNROE.

7. Qualitative Analysis. A brief course intended primarily for students in engineering. Two three-hour periods. Professor MUNROE, Assistant Professor HILL, Mr. SWETT, Mr. LEWIS.

*Second Section. For Undergraduates and Graduates.*

20. Qualitative Analysis. A laboratory course in the study of the properties and reactions of chemical substances, and of the means employed for their detection and identification. Three three-hour periods. Professor MUNROE, Assistant Professor PRICE, Mr. SWETT.

21. Quantitative Analysis. A laboratory course in the quantitative estimation of the constituents of a specially selected and typical set of chemical substances, which are particularly adapted for teaching the student the aims and methods of quantitative chemical analysis and for imparting facility in manipulation. Four three-hour periods. Professor MUNROE, Assistant Professor PRICE, Mr. SWETT, Mr. LEWIS.

23. Advanced course in Organic Chemistry. *Wed., Fri.*, at 4.50. Professor MUNROE, Mr. SWETT.

24. Advanced course in Organic Chemistry. A continuation of Course 23. *Th., Sat.*, at 5.40. Professor MUNROE, Mr. SWETT.

25. Chemistry of the Carbon Compounds. A laboratory course in the preparation and study of the properties of a characteristic series of organic compounds. Four three-hour periods. Professor MUNROE, Mr. SWETT, Mr. LEWIS.

27. Stereo-chemistry. This course deals with the arrangements of atoms in space from a theoretical standpoint, while the student is taught how to form models by which to illustrate their arrangements. Two hours. Assistant Professor HILL.

28. Biochemistry. A laboratory course in the chemical examination of some of the chief foodstuffs, the tissues and fluids of the body, and the products of certain organisms; also the isolation of the digestive enzymes and a study of their action *in vitro*. Three three-hour periods. Assistant Professor PRICE.

29. Organic Chemistry. Especially designed for students in medicine and dentistry. Two hours for one term. Professor MUNROE.

30. Physiological Chemistry. A series of lectures and recitations on the proximate principles of the human body. Two hours for one term. Doctor PHELPS.

31. Clinical Analysis. A laboratory course to accompany 29. Professor MUNROE, Doctor PHELPS, Mr. LEWIS.

#### *Third Section. Primarily for Graduates.*

40. Explosive Substances. Professor MUNROE.

41. Analytical Methods. Professor MUNROE.

43. Development of the Theory of the Constitution of the Natural Silicates. Professor CLARKE.

44. Special Researches in Agricultural Chemistry. Professor WILEY.

45. Special Researches in Electro-chemistry. Assistant Professor HOPKINS.

Students in Chemistry are invited to attend the meetings of the Chemical Society of Washington. These meetings are held on the second Thursday of each month from October to May, in the Assembly Hall of the Cosmos Club, at 8 p. m.

#### CLASSICAL LANGUAGES AND LITERATURES.

MITCHELL CARROLL, Ph.D. .... Professor  
CHARLES SIDNEY SMITH, Ph.D. .... Professor



## GREEK.

*First Section. Primarily for Undergraduates.*

1. Lysias (selected orations); Herodotus (selections); Euripides (Alcestis); Greek prose composition. *Mon., Wed., Fri.*, at 2.30. Professor SMITH.

2. Thucydides (Book VII); Sophocles (Antigone); Xenophon (Memorabilia). *Mon., Wed., Fri.*, at 11. Professor SMITH.

A. Elementary Course. For students who have not taken Greek before matriculating. It aims to cover as much as possible of the entrance requirements in Greek. Three hours. Professor SMITH.

B. Homer: Iliad I-IV or Odyssey V-VIII. For students who have taken the elementary course and desire to enter Course 1. Two hours. Professor CARROLL.

*Second Section. For Undergraduates and Graduates.*

20. Plato (selections); Aristophanes (Clouds); The Attica of Pausanias. Given in 1908-09. Not given in 1909-10. Professor CARROLL.

21. Greek Literary Criticism: Aristotle (Art of Poetry); Aristophanes (Frogs); Greek Lyric Poetry (selections); Conferences on History of Greek Literature. *Tu., Th.*, at 9. Professor CARROLL.

22. Greek Prose Composition (advanced course): Practical exercises in syntax and translation. *Th.*, at 11. Professor CARROLL.

## LATIN.

*First Section. Primarily for Undergraduates.*

1. Livy (Books I, XXI); Cicero (De Senectute); Horace (Odes and Epodes); Latin prose composition. *Mon., Wed., Fri.*, at 3.30. Professor CARROLL and Professor SMITH.

2. Cicero and Pliny (selected letters); Satires and Epistles of Horace; Ovid (selections); Martial (selections). *Mon., Wed., Fri.*, at 1.30. Professor CARROLL and Professor SMITH.

*Second Section. For Undergraduates and Graduates.*

20. Tacitus (selections); Plautus and Terence. Given in 1908-09. Not given in 1909-10. Professor CARROLL and Professor SMITH.

21. Roman Literary Criticism: Quintilian (Book X) and Horace (Ars Poetica); Catullus, Tibullus, and Propertius. *Tu., Th.*, at 10. Professor CARROLL and Professor SMITH.

22. Latin Composition and Reading at Sight: Practice in Latin expression and style. *Tu.*, at 1.30. Professor SMITH.

23. Law Latin. For law students and others who desire preparation in Latin for the study of Roman Law. Two hours. Mr. HENDRY.

## TEACHERS COURSES IN SECONDARY LATIN.

In these courses the teacher is trained for the work of the class-room. In addition to the reading of the authors, each course includes a review of forms, syntax, and prose composition, practice in conducting recitations and discussion of methods of secondary instruction.

24. Cicero's Orations. *Wed.*, 4.50-6.30. Professor CARROLL and Professor SMITH.

25. Caesar's Gallic and Civil Wars. Two hours. Not given in 1909-10. Given in 1910-1911. Professor CARROLL and Professor SMITH.

26. Virgil's *Æneid*. Two hours. Given in 1908-1909. Not given in 1909-10. Professor CARROLL.

## CLASSICAL ARCHÆOLOGY.

20. Greek and Roman Civilization. Two hours. Given in 1908-09. Not given in 1909-10. Professor CARROLL.

21. History of Art. A study of Greek and Roman Architecture, Sculpture and Painting, followed by a sketch of the history of these arts in the Renaissance and in modern times. The course is illustrated by prints, photographs and lantern slides. *Mon., Th.*, at 2.30. Professor CARROLL.

22. Parallel with Course 21. *Mon. Th.*, at 4.50. Professor CARROLL.

*Third Section. Primarily for Graduates.*

The Seminary of the Classics is designed to afford discipline in the methods of philological criticism and research with special reference to the interpretation of classical authors. The authors selected are as follows:

1908-09. Greek 40, Homer; Latin 40, Virgil.

1909-10. Greek 42, Greek Historians; Latin 41, Roman Historians.

1910-11. Greek 41, Attic Orators; Latin 42, Cicero's Orations.

Regular meetings of the Seminary are held *Tu., Fri.*, 4.50-6.30. Professor CARROLL.

## THE UNIVERSITY CLASSICAL CLUB.

The University Classical Club composed of instructors and advanced students in Greek, Latin and Classical Archæology, meets monthly, for the consideration of topics in ancient life, literature and art. Students in classics are invited to attend the public meetings of the Washington Society of the Archæological Institute of America and of the Washington Classical Club.

## AMERICAN SCHOOL OF CLASSICAL STUDIES AT ATHENS.

The University, through friends, is a contributor to the support of the American School of Classical Studies at Athens, and graduates of this University are admitted without expense for tuition.



## COMMERCE AND TRANSPORTATION.

HENRY PARKER WILLIS, Ph.D.....	Professor
ROBERT R. KERN, Ph.D.....	Instructor
JOHN BALL OSBORNE, A.M.....	Lecturer
JOHN WILMER LATIMER, LL.B.....	Lecturer

*Second Section. For Undergraduates and Graduates.*

20. Commercial and Maritime Law. An outline of the principles of the law relating to commercial transactions generally, including those peculiar to the sea, with more especial reference to the subjects of contracts, sales, bailments, agency, partnership, negotiable instruments and common carriers. Second half-year. *Tu., Th., Sat., 4-50 p. m.* Mr. LATIMER.

21. Commercial and Industrial History. The rise and progress of commerce from antiquity to modern times, with particular emphasis on the effects of commerce upon civilization and the relations between commercial and political development. The rise and progress of economic activities in the English colonies of North America and of the agricultural, commercial, and industrial growth of the United States. First half-year. *Tu., Th., Sat., 9 a. m.* Dr. KERN.

22. Modern Business Organization. A study of the modern business, the present modes of producing and distributing commodities, modes of controlling prices, systems of retailing, advertising, etc. Second half-year. *Tu., Th., Sat., 9 a. m.* Dr. KERN.

23. Commerce and Industries of the United States. A study of the resources, industries, business activities, and internal and foreign commerce of the United States; the products of the various sections, the transportation systems by which they are interchanged or assembled for manufacturing and redistribution; the manufacturing systems; the exchange among our own people; the distribution to foreign countries; the markets in which exports are sold and from which imports are drawn. Three hours, first half-year. Not given in 1909-10. Dr. KERN.

24. Commercial Geography. The products, industries, and commerce of the various countries and sections of the world; the exchanges between climatic sections and between the great producing and manufacturing sections and countries of the world; the staple articles of commerce, their places of production and sale; the manufacturing industries, and the distribution of their products; the transportation and financial systems by which interchanges are facilitated; a comparative view of the commercial, economic, and financial conditions in the various sections and countries of the world, including a brief outline of commercial history. Three hours, second half-year. Not given in 1909-10. Dr. KERN.

25. International Trade. A discussion of the theory and mechanism of international trade, followed by a study of the trade relations of the United States and the conquest of foreign markets. Two hours, first half-year. *Tu.*, 4.50 to 6.30 p. m. Mr. OSBORNE.

26. Commercial Policies. Study of the trade policies of the principal commercial powers; history of the policy of reciprocity; commercial treaties and agreements of the United States; doctrine of the most favored nation; tariffs of the United States and the principal foreign countries, particularly the double tariff system. Second half-year. *Fri.*, 8 a. m. Mr. OSBORNE.

### *Third Section. For Graduates.*

40. Transportation. An inductive study of the status of American railways and other common carriers. The rise and development of the railway, the location, chartering, and financing of a line, general features of operation, rate theories and practices, rebates, rate wars, pools, consolidations, the rise of government supervision, and the experience of France, England, and Germany in all these items is the scope of this course. It presupposes either familiarity with the elements of political economy, or railway experience. Two hours, throughout the year. *Th.*, 4.50 to 6.30 p. m. Dr. KERN.

41. Transportation Problems. Detailed studies in the rate problem connected with certain commodities, the relation of express companies to railways, coordination of waterways with railways, ocean transportation, export and import rate discriminations, and current topics. Open to those who have taken the course in Transportation or its equivalent. Seminary methods to be followed in part. Two hours, throughout the year. Not given in 1909-10. Dr. KERN.

42. Government Control of Transportation. A study of the constitutional powers of Congress over the agents, instrumentalities, and subjects of foreign and interstate commerce; the conflicts between federal regulation and the exercise of the police and taxing powers of the several States, and the powers and functions of the Interstate Commerce Commission. Two hours, throughout the year. *Th.*, 4.50 to 6.30 p. m. President NEEDHAM.

### **ECONOMICS AND FINANCE.**

HENRY PARKER WILLIS, Ph.D., ..... Professor  
ROBERT R. KERN, Ph.D., ..... Instructor

### *Second Section. For Undergraduates and Graduates.*

20. General Economics. An outline course in the principles of political economy, devoted mainly to the study of production and exchange



under present-day conditions. Given in two sections. First half-year. *Mon., Wed., Fri.*, 11 a. m. (Section a), 5-40 p. m. (Section b). Dr. KERN.

21. The Economics of Distribution and Consumption. A continuation of Course 1, devoted mainly to the problems of rent, interest, wages, and profits, and including an examination of competition, private property, luxury, saving, and speculation, in their effects upon human welfare. Given in two sections. Second half-year. *Mon., Wed., Fri.*, 11 a. m. (Section a), 5-40 p. m. (Section b). Dr. KERN.

22. Public Finance. A course in the development of budgetary and fiscal methods and principles. The history and tendencies of public expenditure under the Federal and State governments. The theory of taxation; administration of public domains, and industries; public debts. First half-year. *Tu., Th.*, 10 a. m. Professor WILLIS.

23. Money and Banking. The history and theory of money; the production of the precious metals; the theory of prices and measurement of price fluctuations; monetary systems; the relation of the Treasury system to our money supply; the theory of credit and banking; the national bank system of the United States and the banking system of foreign nations. Second half-year. *Tu., Th.*, at 10 a. m. Professor WILLIS.

24. Accounting. General Principles of accounting; the more important forms of commercial paper and business methods. A text-book on accounting and hand-books dealing with accounting forms and methods are used as guides. Much of the work is based upon library readings. The course terminates with a study of the accounts of representative kinds of business and the methods of accounting and auditing applicable thereto. First half-year. *Mon., Fri.*, 5-40 p. m. Professor WILLIS.

25. Corporation Finance. The various sorts of corporation securities; methods of organizing and financing modern industrial enterprises; the nature of investment and speculation; stock and produce exchanges; the effect of speculative and investment operations on the staple industries. Second half-year. *Mon., Fri.*, 5-40 p. m. Professor WILLIS.

26. Theory and Practice of Statistics. The elementary principles of statistics, with concrete examples of their applications; the graphic method; the use of averages; index numbers; and the special application of statistics to insurance; government statistical methods and publications in the United States and in the principal foreign countries. Two hours, second half-year. Not given in 1909-10. Professor WILLIS.

### *Third Section. For Graduates.*

40. Taxation. Taxation, its administration and organization. The legal problems which arise in connection with taxation will be studied

through typical cases. Two hours, second half-year. Not given in 1909-10. Professor WILLIS.

41. Advanced Accounting. A special study of accounting principles in their application to specified classes of business. Prerequisite—the course in accounting. First half-year. *Wed.*, 5.40. Professor WILLIS.

42. Insurance. The historical development of insurance; its economic aspects; fire, accident, and life insurance, from the standpoint of internal organization; rates; policies. Second half-year. *Wed.*, 5.40. Professor WILLIS.

43. Labor Problems. A brief sketch of the labor movement in the United States and of the aims and methods of trade unions, followed by a discussion of such problems as: Child labor; dangerous occupations; workingman's insurance against sickness, old age, accidents and unemployment; strikes and industrial conflicts; conciliation and arbitration; collective bargaining. Two hours, second half-year. Not given in 1909-10. Dr. KERN.

### ENGINEERING.

PHILANDER BETTS, M.S., E.E.	Assistant Professor of Electrical Engineering
EDWIN V. DUNSTAN, C.E.	Assistant Professor of Civil Engineering
OSCAR A. MECHLIN, C.E.	Assistant Professor of Civil Engineering
ARTHUR CUTTS WILLARD, B.S.	Assistant Professor of Mechanical Engineering
F. CHARLES STARR, B.S.	Instructor in Civil Engineering
CHARLES W. MORTIMER, M.E.	Instructor in Electrical Engineering
	Assistant in Drawing

### APPLIED MATHEMATICS.

#### *Second Section. For Undergraduates and Graduates.*

20. Analytical and Applied Mechanics. (1) Statics: including the composition, resolution, and equilibrium of forces; center of gravity; friction; machines. (2) Kinematics and Kinetics: including rectilinear and curvilinear motion; motion under action of variable forces and in resisting media; constrained and rotatory motion; impact; work and energy; moment of inertia. Four hours a week first half-year. Assistant Professor DUNSTAN.

21. Hydraulics. The theoretical principles of hydraulics: including hydrostatics, flow through orifices, over weirs, through pipes and in open channels, and the dynamic pressure of water. Experiments in connection with this course are made in the Engineering Laboratory. Four hours a week second half-year. Assistant Professor DUNSTAN.



22. Mechanics of Materials and Theory of Elasticity: including elastic and ultimate strength and deformation; simple, cantilever and continuous beams; columns, torsion; combined stresses; compound columns and beams; including reinforced concrete; resilience; work; fatigue; mathematical theory of elasticity. Four hours a week second half-year. Assistant Professor MECHLIN.

### CIVIL ENGINEERING.

#### *First Section. Primarily for Undergraduates.*

1. Surveying and Mapping. This course includes the theory and use of instruments; land, topographic, hydrographic, mining, city, and geodetic surveying; measurement of volumes, projection of maps, etc. Two hours a week. Field work, usually on Saturday. Mr. STARR.

2. Railroad Engineering. Railroad curves and earthwork; location of about two miles of railroad, including reconnaissance, preliminary and final locations, construction of contour maps and profiles, computation of earthwork, design of culverts, etc.; laying out curves; track work, etc. Two hours a week. Field work, usually on Saturday. Assistant Professor DUNSTAN.

3. Highways and Pavements. Location of highways; construction, improvement and maintenance of roads and pavements; curbs, gutters, sidewalks. One lecture and one design period during the first term. Assistant Professor MECHLIN.

4. Materials of Construction. A study of the properties of stone, brick, cement, concrete, wood, iron, steel, etc., with reference to processes of manufacture. The course is supplemented by a number of practical tests made by the students. Two lectures for first term and one lecture and one laboratory period for second term. Assistant Professor MECHLIN.

5. Surveying Instruments. A two-months' course for Mechanical and Electrical Engineering students, covering the use of the compass, transit, and level. Lectures and field exercises, two hours per week. Mr. STARR.

6. Foundations. A two-months' course for Mechanical and Electrical Engineering students, covering the general principles of foundation construction and the materials used. Two hours a week. Assistant Professor MECHLIN.

8. A course in Practical Astronomy for Civil Engineering students. Special attention is given to the methods of determining latitude, longitude, azimuth and time with the engineer's transit; observations for each being a required part of the course. Reference book: Young's

"Manual of Astronomy." Two lecture-recitation periods per week for one term. Mr. STARR.

*Second Section. For Undergraduates and Graduates.*

20. Masonry Construction. A course in the use of cement, brick, stone, and concrete, the design of foundations, retaining walls, dams, bridge piers and arches. Included in this is a short course in stereotomy. Two lectures and two design periods per week. Assistant Professor MECHLIN.

21. Hydraulic Engineering. The design and construction of water power plants and irrigation works. Flow of rivers; rainfall and runoff; methods of development; hydraulic motors; power transmission. Irrigation plans; distributing systems; water rights and irrigation law. Two lectures and one design period per week. Assistant Professor DUNSTAN.

22. Theory of Structures. A course covering the determination of stresses in framed structures by graphical and by analytical methods. The first term is devoted to beams and roof trusses; the second to bridge trusses under uniform and wheel loads. Three lectures and two design periods per week. Assistant Professor DUNSTAN.

23. Theory of Structures. The theory of steel design; the design of a roof truss, of a plate girder and a pin connected bridge truss and a study of the theory and design of suspension, continuous, cantilever, and arch bridges, and the details of steel-mill and office-building construction. Three lectures and two design periods per week. Assistant Professor MECHLIN.

24. Sanitary Engineering. This course treats of the drainage of buildings and lands; the treatment and disposal of sewage and the sewerage of cities and towns; public water supply and methods of water purification. Three lectures and one design period per week. Assistant Professor MECHLIN.

*Third Section. Primarily for Graduates.*

40. Advanced Masonry. A course in the theory and design of reinforced concrete structures. Assistant Professor MECHLIN.

41. Advanced Masonry. The theory of retaining walls and arches. Assistant Professor MECHLIN.

42. Testing of Materials. This course involves original research upon assigned topics. Assistant Professor MECHLIN.

43. Water Power Development. A comparative study of the principal water power developments of the United States and Europe. The course consists largely of assigned readings and reports thereon. Assistant Professor DUNSTAN.



## ELECTRICAL ENGINEERING.

*First Section. Primarily for Undergraduates.*

1. Elementary Mathematical Theory of Electricity and Magnetism, with special attention to the needs of engineering students. Three hours a week, until January 1. Mr. MORTIMER.

2. Direct-current motors and generators. Covers the laws of the magnetic circuit as applied to the dynamo. Students are required to design a direct-current machine. Text-books: Hawkins and Wallis's "The Dynamo." Three hours a week, beginning January 1. Mr. MORTIMER.

3. Elements of Electrical Engineering. Text-book: Tyson Sewell's "Elements of Electrical Engineering." Two hours a week. Mr. MORTIMER.

4. Electrical Measurements. A laboratory course for Juniors. Selected experiments. Foster's Hand-book and special laboratory notes are used for reference. Six hours a week, first term. Mr. MORTIMER.

5. Electrical Laboratory. Experiments and tests involving the operation of direct-current dynamos and motors, including tests of motors in service, operating elevators, street cars, and machinery of various kinds. Text-book: Sever and Townsend's "Laboratory and Factory Tests in Electrical Engineering." Six hours a week, second term. Assistant Professor BETTS and Mr. MORTIMER.

6. Industrial Electricity. A practical course intended for Juniors in Civil Engineering, embracing the selection and operation of electrical machinery, electric railways and other applications of electric motors. Two hours a week for the first term. Assistant Professor BETTS.

7. Electrical Engineering. A course in theoretical and applied electricity intended for Seniors in Mechanical Engineering. It embraces the selection and operation of electrical machinery, the location, construction, and operation of power plants, electric railways and transmission lines, the use of electric motors for driving machinery, and the working of storage batteries, elevators, hoists, and cranes. Three hours a week. Assistant Professor BETTS.

8. Electrical Design. A course for Seniors in Electrical Engineering, embracing calculation and design of electrical machinery and accessories, including switchboards, rheostats, instruments, and arrangement of same. One recitation period and one drawing period throughout the year. Assistant Professor BETTS, Mr. MORTIMER.

*Second Section. For Undergraduates and Graduates.*

21. Alternating Current Theory and Machinery. A course for Seniors in Electrical Engineering, covering the principles of single as well as polyphase currents, including study of machines, circuits, transformers, etc. Four hours a week, Senior year. Mr. MORTIMER.

22. Electrical Distribution. A course for Seniors in Electrical Engineering, covering the whole field of distribution of electricity for light and power. Text-book: Crocker's Electric Lighting; second volume, "Distribution System." Two hours a week. Assistant Professor BETTS.

23. Electrical Applications. A course for Seniors in Electrical Engineering, covering the more important applications of electricity, such as motive power, including elevators, hoists and machine drive, telephony, telegraphy, electro-metallurgy, etc. One hour a week. Assistant Professor BETTS.

24. Advanced Laboratory Work for Seniors in the Electrical Engineering Course. Covers test and experimental work with direct and alternating currents, tests of machines, circuits, transformers, circuits containing inductance and capacity, measurement of power in alternating current circuits, plotting of curves, etc. Text-book: Sever and Townsend's "Laboratory and Factory Tests in Electrical Engineering," with Foster's Electrical Engineer's Hand-book for general reference. Six hours a week. Assistant Professor BETTS, Mr. MORTIMER.

25. Inspection of Plants and Industrial Works. In the vicinity of Washington and Baltimore are a number of modern electric lighting and street railway plants, telephone exchanges, telegraph operating rooms, Government laboratories devoted to special work, etc., which afford students of Electrical Engineering an opportunity to familiarize themselves with nearly all types of apparatus in use. The visits are followed by class discussion based on written descriptions submitted by the students.

26. Electric Lighting and Illumination. A course for Seniors in Electrical Engineering covering the subject of electric lighting and illumination, including detailed study of different types of lamps, shades, arrangement of light sources, effect of walls, etc. Two hours per week first term. Assistant Professor BETTS.

27. Electric Railways. A course for Seniors in Electrical Engineering covering the theory and practice of modern, direct and alternating current railways. Two hours a week second term. Assistant Professor BETTS.

Juniors and Seniors in Electrical Engineering are required to attend the monthly meetings of the Washington Branch of the American Institute of Electrical Engineers held at the University.

### *Third Section. Primarily for Graduates.*

41. Advanced Dynamo Design. This comprises the more rigid calculation of the magnetic circuit, the estimation of the electrical and mechanical losses, together with an exposition of the elements of mechanical design. Assistant Professor BETTS, Mr. MORTIMER.

42. Advanced Course in the Mathematical Theory of Alternating Currents. Assistant Professor BETTS, Mr. MORTIMER.



43. Advanced Course in Polyphase Currents. Assistant Professor BETTS, Mr. MORTIMER.

44. Advanced Laboratory Work, Alternating (including Polyphase) Current Apparatus. Assistant Professor BETTS, Mr. MORTIMER.

### GRAPHICS.

#### *First Section. Primarily for Undergraduates.*

1. Mechanical and Freehand Drawing. A general course embracing the care and use of instruments; orthographic and isometric projections; sections and intersections; curve plotting; sketching of simple machine details; freehand lettering; principles of working drawings. Six hours a week in the drawing-room. Mr. STARR.

2. Advanced Mechanical Drawing. A course in working drawings especially designed for Electrical and Mechanical Engineering students. Drawing-room rules and practice; conventional forms and standards; arrangement of views and sections; freehand shop-sketches; detailing from sketches, models and general drawings; proportioning by empirical formulas. Six hours a week in the drawing-room.

8. Descriptive Geometry. A study of the representation of lines, surfaces, and solids, and of their relations; tangencies, intersections, and developments; warped surfaces; shades and shadows; original construction problems. Two lectures and one drawing period per week. Mr. STARR.

10. Topographic Drawing. A general course in plotting, topographic symbols, and lettering to accompany the work in surveying. One drawing period per week. Mr. STARR.

#### *Second Section. For Undergraduates and Graduates.*

20. Graphic Statics. Principles and methods, including the construction and use of the force and equilibrium polygons; dead, live, snow, and wind loads; the graphic analysis of beams, girders, roof, and bridge trusses. Two lectures and one design period per week. Assistant Professor DUNSTAN.

#### *Third Section. Primarily for Graduates.*

40. Advanced Graphic Statics. A study of the graphical analysis of higher structures, with special reference to the method of influence lines. Assistant Professor DUNSTAN.

### MECHANICAL ENGINEERING.

#### *First Section. Primarily for Undergraduates.*

1. Mechanism. A course in the systematic study of the kinematics of machinery, in which mechanical movements are reduced to scientific

analysis. Carefully developed problems and diagrams of changes of position and speed in mechanisms are constantly used.

Some attention is given to the design of gear teeth, and valve gears for steam engines, and to the necessary theory for such design. Two lecture-recitation hours and two drawing hours per week during the Sophomore year.

4. Woodwork. Four hours per week in the shops during the Sophomore year.

5. Metal Work. Six laboratory hours per week during the Junior year. Electrical engineering students are given a modified course of three hours per week.

6. Engineering Drawing. This course provides for the application of the principles taught in the courses of Mechanism and Steam Engineering to specific problems. Practice is given in the design of valve gears and quick return motions, and in the determination of velocity diagrams for special engine and other linkages. There is also included the complete working drawings for a steam boiler. Six drawing hours per week during the Junior year. Assistant Professor WILLARD.

7. Machine Design. This course is an application of principles already acquired to problems in design, each student being required to complete every detail of the design undertaken.

The subjects taken as design problems are: The design of a boiler; permanent and temporary fastenings for machine parts; a crank; a large shaft with pulley and gear wheels, rotating and sliding pieces, etc. The constructive details and calculations are discussed and the limitations of theoretical and empirical formulas pointed out. Results are made to conform with experience and the best practice. One lecture-recitation hour and three drawing hours per week during the Senior year. Assistant Professor WILLARD.

9. Engineering Laboratory. A course of practical work in testing general engineering apparatus for efficiency. The work consists in indicating steam engines; determining the evaporative efficiency of boilers; tests on the strength of materials; measurement of the flow of water; gas-engine brake tests; refrigeration tests, and fuel value determinations. The student's observations and computations on any test are critically compared with those of the instructor. Six laboratory hours per week for the last half of the Junior year. Assistant Professor WILLARD, Assistant Professor BETTS.

10. Engineering Laboratory. This course is a completion of Course 9. Six hours a week during the Senior year. Assistant Professor WILLARD, Assistant Professor BETTS.

12. Elements of Steam Engineering. A course designed for the needs of Civil Engineering students. It deals briefly with valve gears, power plant accessories, thermodynamics, steam engines, steam pumps, and



steam boilers. Two lecture-recitation hours per week during the Senior year.

*Second Section. For Undergraduates and Graduates.*

20. Steam Engineering. The first half-year of the course deals with the principles of Thermodynamics; the properties of gases and vapors, especially steam; the flow of steam and other fluids, and the steam injector. The application of the above principles is discussed, and the simple, compound, and multiple expansion steam engines are studied.

The last half-year of the course is devoted to the study of steam boilers and power plants, and their accessories. A design, with plans and specifications, for a power plant of industrial proportions is required from each student. Three lecture-recitation hours per week during the Junior year. Assistant Professor WILLARD.

22. Internal Combustion Motors. This course will deal with the theory, design, and practice concerning gas, gasoline, and other engines. The work will include: (1) The fuels employed, their energy content, and its conversion into mechanical work; (2) the cycle of operations of the heat medium, with details of method of transforming heat into work, and types of motor; (3) the practical details of operation, mixing the charge, carburation, ignition, and governing; (4) the manipulation and practice, and a discussion of economy and performance from tests. The design of some simple type of motor will be completely worked out and discussed. Three lecture-recitation hours per week for the first half of the Senior year. Assistant Professor WILLARD.

23. Hydraulic Machinery. This course provides for an elementary study of hydraulic prime movers and pumping machinery. It includes a discussion of the theory and design of turbines and turbine blades for low and high heads, and turbine governors.

The course will also treat of impulse wheels; water motors of the piston type; machinery for the utilization of hydraulic pressure; hydraulic pressure pumps, and hydraulic presses; hydraulic tools; pumps operated by steam, electricity, or power; and high duty pumps and water meters. Two lecture-recitation hours per week for the first half of the Senior year.

25. Compression and Refrigeration Machinery. A course in which the principles of thermodynamics are applied to the commercial methods of compressing air and securing artificial refrigeration. The work will also include the mechanical principles concerned in the design of air compressors as well as the transmission of air in high-pressure piping.

The relative advantages of refrigeration systems will be discussed, as brought out in the theory and practice of actual machines using ammonia, air, and other gases, and fluids. Three lecture-recitation

hours per week in the last half of the Senior year. Assistant Professor WILLARD.

28. Industrial Management. A course dealing with the business systems of manufacturing establishments.

The work includes a study of the organization and relations of the various departments of an industrial establishment, both in the office and in the workshop. It also discusses the conduct of accounts, the methods of superintendence and of compensating labor, the determination of the costs of production, and the effect on costs of different systems of distributing indirect expenses. Two lecture-recitation hours per week for the last half of the Senior year. Assistant Professor WILLARD.

*Third Section. Primarily for Graduates.*

40. Advanced Gas-Engine Design, a short lecture course on multi-cylinder engines. Assistant Professor WILLARD.

41. Advanced Mechanical Engineering Laboratory, with fuel determinations, heat measurements, and gas analysis work. Assistant Professor WILLARD.

42. Advanced theory of governors, planimeters, and dynamometers for Steam Engineering. Assistant Professor WILLARD.

43. Advanced Engineering Drawing. Special problems. Assistant Professor WILLARD.

**ENGLISH.**

WILLIAM ALLEN WILBUR, A.M. .... Professor  
DE WITT C. CROISSANT, A.B. .... Assistant Professor

*First Section. Primarily for Undergraduates.*

1. Rhetoric. A study of the principles of self-expression through language with lectures, recitations, and practice in composition. Tu., Th., Sat., at 10. Assistant Professor CROISSANT.

2. Rhetoric. Parallel with Course 1. Mon., Wed., Fri., at 4.50. Professor WILBUR.

NOTE.—Credit for Course 1 or 2 is requisite for admission to any other course in English.

3. English Literature. Lectures on the development of the literature, with the reading of representative masterpieces. Tu., Th., Sat., at 4.50. Assistant Professor CROISSANT.

4. Humanistic Studies in English Literature: "Euphues;" "Advancement of Learning," Book I; "Ecclesiastical Polity," Book I; "The Complete Angler;" "The Pilgrim's Progress;" "Religio Medici;" "Clarissa Harlowe;" "Evelina;" "Emma;" "The Prelude" (Wordsworth); "Endymion." Mon. Wed., Fri., at 10. Professor WILBUR.



*Second Section. For Undergraduates and Graduates.*

22. Shakespeare. The Comedies. Not given in 1909-10. Professor WILBUR.

23. Shakespeare. The Tragedies. *Mon., Wed., Fri.*, at 1.30. Professor WILBUR.

The Temple edition of Shakespeare is recommended.

28. Old and Middle English. Old English is studied the first term, and Middle English the second term. Bright's Anglo-Saxon Reader, and Emerson's Middle English Reader. (Advanced work may be arranged for competent students.) *Mon., Wed., Fri.*, at 3.30. Assistant Professor CROISSANT.

32. Elements of Literary Criticism. Lectures on the general principles of literature, and on the literary types. Discussion of examples. *Mon., Wed., Fri.*, at 2.30. Assistant Professor CROISSANT.

*Third Section. Primarily for Graduates.*

40. History of the English Language. Development of the sounds and inflections with some reference to the other Germanic dialects. A reading knowledge of German and previous study of Old and Middle English are prerequisite. Assistant Professor CROISSANT.

44. Seminary in English Literature. Subject in 1908-09: "Idylls of the King." Subject in 1909-10: "The Ring and the Book." *Th.*, 3.30 to 5.30. Professor WILBUR.

## GEOLOGY AND MINERALOGY.

GEORGE P. MERRILL, Ph.D. .... Professor  
TIMOTHY W. STANTON, Ph.D. .... Assistant Professor  
R. S. BASSLER, Ph.D. .... Assistant Professor

*First Section. Primarily for Undergraduates.*

1. Mineralogy. Crystallographic, descriptive, and determinative mineralogy. This course is designed with especial reference to minerals as rock constituents or segregated as ore deposits. It includes, therefore, a discussion of not merely the crystallographic and theoretical, but the practical side of the subjects as well. Whenever possible, it should be considered as introductory to the courses in either systematic or economic geology. *Tu., Th.*, at 5.40.

2. Geology. Systematic geology; dynamical, structural, and stratigraphical. The course is designed to form a part of a general-culture course, or a preliminary course for those intending to make a specialty of geology. It includes lectures, recitations, laboratory and field work so far as hours will permit. Paleontology is treated as a branch of

geology, having especial reference to stratigraphy and correlation. Text-books: Scott's Introduction to Geology, Merrill's Rocks, Rock Weathering, and Soils. *Mon., Fri.*, at 5.40.

*Second Section. For Undergraduates and Graduates.*

20. Economic Geology. The course covers the subjects comprised under: (1) Mineral veins and metalliferous deposits, their mode of occurrence, origin, and classification; (2) the ores of iron, copper, lead, zinc, tin, silver, gold, mercury, antimony, etc.; and (3) the non-metallic minerals as the coals and hydrocarbon compounds; salts and materials used in chemical manufactures; abrasive, refractory, and fictile materials, pigments, gems, ornamental stones, building stones, limes, cements, and mineral waters. Text-books: Weed's Translation of Beck's Nature of Ore Deposits; Merrill's Stones for Building and Decoration and the Non-metallic Minerals. *Mon., Fri.*, at 4.50.

21. Paleontology. A course in lecture and laboratory work on the biological and geological relations of the more important types of animals and plants, with especial reference to their value in stratigraphic geology. Two hours.

*Third Section. Primarily for Graduates.*

Advanced study in Geology, both systematic and applied, is arranged to cover two years.

40. Advanced Geology and Paleontology. The student in this first-year course may devote his time largely, if necessary, to perfecting himself in methods; to general work in the laboratory and in the field; to the examination of geological materials, and to familiarizing himself with the literature of the subject.

41. Advanced Paleontology and Stratigraphic Geology. A continuation of Course 21. Besides the study of paleontological methods, the student is expected to pursue some special line of investigation in order to fit himself for original research.

**GERMANIC LANGUAGES AND LITERATURES.**

HERMANN SCHOENFELD, Ph.D., LL.D. .... Professor  
A. F. W. SCHMIDT, A.M. .... Assistant Professor

*First Section. Primarily for Undergraduates.*

I. Elementary. The essentials of German grammar; translation of prose and poetry; composition and dictation. This course is open only to beginners, and the work done is equivalent to that of a two years' course in high schools and academies of good standing. *Tu., Th., Sat.*, at 11. Assistant Professor SCHMIDT.



2. Parallel with Course 1. *Tu., Th., Sat.*, at 4.50. Assistant Professor SCHMIDT.

3. Selected texts from the foremost contemporary authors will be read and one or more of the German classics carefully studied. The work in grammar and composition done in elementary German will be continued on a more advanced plane, with special emphasis on syntax, word-formation, and the relationship of German and English. This course is equivalent to the advanced German of the admission requirements, and it is open only to students who have passed Course 1 or 2 or have satisfied the admission requirement in elementary German. *Mon., Wed., Fri.*, at 11. Professor SCHOENFELD.

4. Parallel with Course 3, except that in the second term scientific German is read. *Tu., Th., Sat.*, at 5.40. Assistant Professor SCHMIDT.

5. Advanced course in German syntax; principal difficulties of the language; idioms; synonyms; extensive translations, of the best English prosaists into German; essays; selected advanced prose; classical reading and literature; German history. Special training for advanced students in the historical and economic departments. Open to students who have passed Course 3 or have satisfied the admission requirement in advanced German. *Mon., Wed., Fri.*, at 1.30. Professor SCHOENFELD.

6. Parallel with Course 5. *Mon., Fri.*, at 4.50. Assistant Professor SCHMIDT.

#### *Second Section. For Undergraduates and Graduates.*

20. German Literature in the first half of the nineteenth century; its social and political aspects; special study of Kleist, Uhland, Heine; the Austrian School; the Romanticists; classicism till Goethe's death; essays, lectures, and collateral reading. *Mon., Wed., Fri.*, at 10. Professor SCHOENFELD.

21. Goethe's *Faust*. *Tu., Th.*, at 10. Professor SCHOENFELD.

The intervening periods of Modern German Literature will be studied during the subsequent academic year.

#### *Third Section. Primarily for Graduates.*

40. German Literature in the sixteenth century. Braune's *Neudrucke Deutscher Literaturwerke*. Humanism and Reformation, with special reference to Italian and French influences and their historical basis. Original readings from the Humanists, Hans Sachs, Fischart, and Luther's works. The reformatory projects of Cardinal Nicolaus Cusanus and of Erasmus, Hutten, and Reuchlin. Professor SCHOENFELD.

41. German Literature in the twelfth and thirteenth centuries, with special regard to the Nibelungen lay, the Gudrun saga, Wolfram von Eschenbach. The lyrics of Walther von der Vogelweide. The gram-

matical aspects of the classics of the first period of bloom. Professor SCHOENFELD.

The other phases of older German literature will be studied in subsequent years, so that the general range of the history of German Literature may be covered every three years.

45. The emerging of the Germanic, Romance, and Slavic races in European History. The Migration of Peoples. The Evolution of European States to the Rise of the Hapsburg House. Cultural elements influencing the three predominating races of Europe. (Selections from the historical sources are read and interpreted.) Professor SCHOENFELD.

47. Gothic. Introduction to comparative Indo-European grammar. 2 hrs. Assistant Professor SCHMIDT.

48. Old High German. The development of the German language. 2 hrs. Assistant Professor SCHMIDT.

49. Old Norse. The Eddas. 2 hours. Assistant Professor SCHMIDT. Only one of the foregoing three courses (47, 48, 49) is given at a time.

For notice of the Richard Heinzel Germanic Library, see page 13.

#### HISTORY.

CHARLES CLINTON SWISHER, Ph.D., LL.D.....	Professor
WILLIAM RAY MANNING, Ph.D.....	Assistant Professor
JAMES FREDERICK PEAKE, A.M.....	Assistant Professor
GEORGE MORTON CHURCHILL, A.M.....	Instructor
HANS FRED'K ARTHUR SCHOENFELD, A.B.....	Assistant
WILLIAM HAMILTON, Ph.D.....	Lecturer

#### *First Section. Primarily for Undergraduates.*

1. Mediæval History (350-1500 A. D.). The history of Europe from the invasion of the barbarian tribes to the opening of the sixteenth century with emphasis upon the principal institutions of the Middle Ages and the intellectual, social, and political conditions that gave rise to the Renaissance. Three hours throughout the year. *Mon., Wed., Fri.,* at 2.30. Assistant Professor PEAKE.

2. Modern European History (1500-1908). Beginning with a study of the conditions brought about by the Renaissance, this course will treat of the religious, political, and economic development of Europe since the beginning of the sixteenth century. Three hours throughout the year. *Mon., Wed., Fri.,* at 3.30. Assistant Professor PEAKE.

3. English History (55 B. C. - 1901 A. D.). The history of England from the invasion of Cæsar to the accession of Edward VII, with special emphasis upon the origin and growth of the constitution, the Reformation, the economic development of England and the expansion



of the British Empire. Three hours throughout the year. *Tu., Th., Sat.*, at 11.00. Assistant Professor PEAKE.

5. Mediæval History (350-1500 A. D.). Parallel with History 1. Three hours throughout the year. *Mon., Wed., Fri.*, at 5.40. Assistant Professor PEAKE.

10. American Political History. A general survey of the field of American history, designed as a preparation for specialized work, or for students having only a limited time to devote to the subject. Lectures, text-books, and reports on assigned readings. Throughout the year. *Tu., Th.*, at 2.30. Professor SWISHER.

15. Ancient History. The Eastern nations and Greece to the period of the Roman Conquest. *Mon., Fri.*, at 10. Mr. SCHOENFELD.

16. Roman History. The political history of Rome from the establishment of the Republic to the time of Constantine the Great. Two hours. In alternate years. Not given in 1908-09. Mr. SCHOENFELD.

*Second Section. For Undergraduates and Graduates.*

23. European History, 1815 to 1870. Text-book, lectures, and reports on collateral reading. Besides the history of Europe proper much attention is given to matters of larger European interest, especially to colonization and international relations with reference to South America, Asia, and Africa. First half-year, *Mon., Wed., Fri.*, 5.40 p. m. Assistant Professor MANNING.

24. European History, 1870 to the present. Continuation of the preceding, studying the most recent developments with special attention to the forms of government, political questions, and current issues. Second half-year. *Mon., Wed., Fri.*, 5.40 p. m. Assistant Professor MANNING.

25. English Constitutional History. In alternate years. Not given in 1909-10. Two hours throughout the year. Assistant Professor MANNING.

30. American Constitutional History. A history of the origin and development of the Federal Constitution of 1789, with a study of its interpretation under the pressure of party issues, extending through the periods of division and reunion. Lectures, text-books, and collateral reading. Throughout the year. *Mon., Fri.*, at 4.50. Professor SWISHER and Mr. CHURCHILL.

31. American History since the Civil War. A brief survey of the Civil War followed by a study of the conditions resulting therefrom up to the close of the nineteenth century. Lectures and assigned readings. Throughout the year. *Tu., Th.*, at 3.30. Professor SWISHER.

33. Current History. A discussion of political questions of the present time with special reference to their origin and historical signifi-

cance. Lectures and examinations. Throughout the year. *Wed.*, at 11.00. Professor SWISHER.

*Third Section. Primarily for Graduates.*

42. History of Party Government. The rise and development of the party system and the influence of party leaders and party issues in the United States, based on a study of political platforms and campaign literature. Throughout the year. *Mon., Fri.*, at 3.30. Professor SWISHER.

43. American Colonial History. A history of the development of representative government under the provincial charters, with a detailed study of the social, economic, and political conditions leading to the Revolution. Given in 1910-11.

44. Seminary Work. The results of individual research upon assigned topics, and reviews of recent political and historical publications by graduate students will be discussed at the weekly meetings of the seminary of American History. Professor SWISHER and Mr. CHURCHILL.

45. Seminary in European History. Assistant Professor MANNING.

**HYDRAULIC ENGINEERING.**

HENRY L. ABBOT, LL.D. .... Professor

*Third Section. Primarily for Graduates.*

40. Laws of flowing water, in natural channels, in pipes, and over weirs, with modes of measurement. Underground flow as sources of supply, with modes of estimation. Relation of rainfall to runoff. Regulation of river flow for purposes of navigation, and for protection against inundation. Slack-water navigation, including dams, canal locks, and waste weirs. Earth dams and river embankments, theory and modes of construction. Effect of forests upon water supply.

**INTERNATIONAL LAW AND DIPLOMACY.**

JAMES BROWN SCOTT, A.M., J.U.D. .... Professor

ELLERY C. STOWELL, *Docteur en droit* .... Instructor

DAVID J. BREWER, LL.D. .... Lecturer

JACKSON H. RALSTON, LL.B., LL.D. .... Lecturer

*Second Section. For Undergraduates and Graduates.*

20. Principles of International Law. A detailed course in the nature, sources, and sanctions of International Law, based upon the study of cases and reports, supplemented by lectures and assigned readings. Two hours throughout the year. First half-year. *Mon., Wed., Fri.*, 8 a. m. Second half-year *Mon., Wed.*, 8 a. m. Professor SCOTT.



21. The Elements of Diplomacy. A study of the genesis and organization of the Department of State; the diplomatic service; diplomatic usage; negotiation of treaties; methods and traditional principles of our foreign policy. First half-year. *Tu., Th.*, 8 a. m. Professor SCOTT.

22. The Consular Service. A general survey of the rise, development, organization of the consular service; consular conventions; the rights, duties, and methods of procedure of consular officers; comparative study of modern consular systems. Throughout the year. *Tu., Th., Sat.*, 8 a. m. (section a), 11 a. m. (section b), Dr. STOWELL.

[Mr. Osborne will take charge of this course during part of the second half-year and give instruction in the preparation of consular trade reports and the prevention of the undervaluation of merchandise imported into the United States.]

23. Arbitrations and Arbitral Procedure. The history and development of international arbitrations; a discussion of the formation of arbitral tribunals, the composition of the tribunal, the arbitral award, etc. Throughout the year. *Wed.*, 9 a. m. Mr. RALSTON and Dr. STOWELL.

24. International Unions and their Administration. The Telegraphic Union, the Postal Union and other organizations for international regulation of common interests. Two hours, second half-year. Not given in 1909-10. Dr. STOWELL.

25. History of European Diplomacy, 1648 to 1814. Lectures, with collateral readings, investigations, and reports. Three hours, first half-year. *Mon., Wed., Fri.*, at 9 a. m. Assistant Professor MANNING.

26. History of European Diplomacy, 1814 to the present. A continuation of the preceding. Three hours, second half-year *Mon., Wed., Fri.*, at 9.00 a. m. Assistant Professor MANNING.

27. European Diplomacy in the Eastern Question. Relations of the European Powers with reference to the decline of the Ottoman Empire in the last two centuries and the creation of the independent Balkan States. In alternate years; given in 1909-10. Two hours, first half-year. *Mon. and Fri.* at 3.30. Assistant Professor MANNING.

28. European Diplomacy in the Far East. After a rapid review of European colonization and conquest in Asia a study is made of the intercourse of Western nations with China and Japan, and of the relations of the powers with reference to the new problems of the Far East. In alternate years; given in 1909-10. Two hours, second half-year. *Mon. and Fri.* at 3.30. Assistant Professor MANNING.

29. History of American Diplomacy. A general history of American foreign relations from the Treaty with France in 1778, with a special study of some of the more important questions of American foreign policy. A research course with readings from treaties and diplomatic

correspondence. Throughout the year. *Mon., Fri.*, 2.30 p. m. Professor SWISHER.

### MATHEMATICS.

HOWARD LINCOLN HODGKINS, Ph.D.....	Professor
PAUL NOBLE PECK, A.M.....	Assistant Professor
ASAPH HALL, JR., Ph.D.....	Professor
LOUIS COHEN, B.S.....	Assistant Professor

#### *First Section. Primarily for Undergraduates.*

2. Plane and Solid Geometry: Gore's Plane and Solid Geometry; *Tu., Th.*, at 5.40. Assistant Professor PECK.
3. Solid Geometry; Gore's Plane and Solid Geometry. *Mon., Wed., Fri.*, at 9, October and November. Assistant Professor PECK.
4. Algebra: Bowser's College Algebra. *Mon., Wed.*, at 4.50. Assistant Professor PECK.
5. Algebra: Bowser's College Algebra. *Mon., Wed., Fri.*, at 9, December to March. Assistant Professor PECK.
6. Solid Geometry: Gore's Plane and Solid Geometry. *Tu., Th., Sat.*, at 4.50, October and November. Assistant Professor PECK.
7. Plane Trigonometry: Gore's Plane and Spherical Trigonometry. *Mon., Wed., Fri.*, at 9, April and May. Assistant Professor PECK.
8. Algebra: Bowser's College Algebra. *Tu., Th., Sat.*, at 4.50, December to March. Assistant Professor PECK.
9. Trigonometry: Gore's Plane and Spherical Trigonometry. *Mon., Wed., Fri.*, at 10; October to December. Professor HODGKINS.
10. Plane Trigonometry. Gore's Plane and Spherical Trigonometry. *Tu., Th., Sat.*, at 4.50, April and May. Assistant Professor PECK.
11. Analytic Geometry: Nichols' Analytic Geometry. *Mon., Wed., Fri.*, at 10, January to May. Professor HODGKINS.
12. Trigonometry: Gore's Plane and Spherical Trigonometry. *Mon., Wed., Fri.*, at 5.40, October to December. Professor HODGKINS and Assistant Professor PECK.
14. Analytic Geometry: Plane and Solid; Nichols' Analytic Geometry. *Mon., Wed., Fri.*, at 5.40, January to May. Professor HODGKINS and Assistant Professor PECK.

NOTE—Courses 2 and 4 are intended for students who desire to review some parts of elementary algebra and plane geometry, in order to obtain that thorough and ready knowledge of these fundamental mathematical studies that is necessary for their proper use in other subjects. These classes are not intended for beginners, and only students who have studied elementary algebra and plane geometry are admitted.



*Second Section. For Undergraduates and Graduates.*

20. Differential and Integral Calculus: *Mon., Wed., Fri.*, at 4-50. Professor HODGKINS.

21. Differential and Integral Calculus: *Mon., Wed., Fri.*, at 9. Professor HODGKINS.

*Third Section. Primarily for Graduates.*

40. Differential Equations. Professor HODGKINS.

41. Theory of Equations. Professor HODGKINS.

47. Thermodynamics and Fourier's Series. Assistant Professor COHEN.

48. Celestial Mechanics. Theory of central forces; theory of parabolic and elliptic orbits. Lectures, with reading from the works of Gauss, Oppolzer and Moulton. Professor HALL.

## PHILOSOPHY, PSYCHOLOGY, AND EDUCATION.

WILLISTON S. HOUGH, Ph.M. .... Professor

GEORGE LANSING RAYMOND, L.H.D. .... Professor

SHEPHERD IVORY FRANZ, Ph.D. .... Professor

WILLIAM CARL RUEDIGER, Ph.D. .... Assistant Professor

ELMER ELLSWORTH BROWN, Ph.D. .... Lecturer

GEORGE EDMUND MYERS, Ph.D. .... Lecturer

WILLARD S. SMALL, Ph.D. .... Lecturer

STEPHEN ELLIOTT KRAMER, A.M. .... Lecturer

## PHILOSOPHY.

*First Section. Primarily for Undergraduates.*

1. The Elements of Logic. This course is introductory to the remaining courses in Philosophy, and will include, in addition to the elements of Formal Logic, a study of the structure of knowledge, and of the functions of concepts in both theoretical and practical life. Text-book, with lectures. *Mon., Wed., Fri.*, at 9.00. First half-year. Professor HOUGH and Mr. JOHNSON.

2. Ethics, or the Moral Value of Conduct. The principal subjects considered will be: The growth of morality; the origin and authority of moral standards; the theories of the moral end; the nature of conscience; the system of the virtues; and the social aspects of morality. Text-book, with lectures. Second half-year. *Mon., Wed., Fri.*, at 9.00. Professor HOUGH and Mr. JOHNSON.

Courses 1 and 2 should be taken in sequence.

*Second Section. For Undergraduates and Graduates.*

20. History of Philosophy. The evolution of philosophic thought with special reference to the interpretation of human life. Eucken's

"The Problem of Human Life," with lectures. *Tu., Th.*, at 10.00. Professor HOUGH.

21. History of Philosophy. (Parallel with Course 20). *Tu., Th.*, at 4.50. Professor HOUGH and Mr. JOHNSON.

26. *Æsthetics*. Lectures on æsthetic theories, considered historically and philosophically, and their results as manifested in the different arts. First half-year. *Wed.*, at 4.50. Professor RAYMOND.

*Third Section. Primarily for Graduates.*

40. Elements of Metaphysics. Selected fundamental problems. Designed for graduates taking a major in Philosophy. One hour. Professor HOUGH.

46. *Æsthetics*. Seminary course. *Æsthetics*, considered philosophically, historically, and practically. Conferences, prescribed readings, and thesis. Professor RAYMOND.

PSYCHOLOGY.

Course 1 or Course 2 must precede all Second Section courses in Psychology. Students intending to pursue advanced courses in Psychology, or courses in Education, are recommended to take Course 1 (or Course 2) in their Sophomore year.

*First Section. Primarily for Undergraduates.*

1. General Psychology. This course is designed as a comprehensive introduction to the principles and methods of scientific psychology. Text-book, lectures, and reference-work. *Mon., Wed., Fri.*, at 10.00. Professor HOUGH.

2. General Psychology. (Parallel with Course 1.) Designed specially for teachers. *Tu., Th.*, at 3.30. Professor HOUGH.

3. Elements of Psychology. An introductory course presenting an outline of the main facts about the mind. Designed for first-year students, for special students, and for teachers who are unable to take a longer course. Lectures, with assigned reading. *Th.*, at 4.50. Given in 1908-09; not given in 1909-10. Professor HOUGH.

(Courses 41 and 42 will be given in the psychological laboratory of the Government Hospital for the Insane, which is specially well equipped for psychological teaching and research.)

Educational Psychology. (See Course 41 under "Education.")

*Second Section. For Undergraduates and Graduates.*

20. Comparative Psychology. The evolution of mind in the animal series and in man, including reference to the contributions of race psychology and abnormal psychology. Text-book, lectures, and reports



27. School Administration. A general course including consideration of the different types of school control and support; political and administrative elements in the conduct of schools; relative functions of school board, superintendent and teachers; the budget; school buildings; grading; examinations; promotions; curricula; compulsory education and child labor; and extension of the work of schools. Lectures, assigned readings, reports, and discussions. *Wed.*, at 4.50. Given in 1908-09; not given in 1909-10. Dr. UPDEGRAFF.

28. Educational Theory. Five lectures comprising an introduction to the chief divisions of a general theory of education, and ten lectures on the principal epochs in the development of educational theory. *Fri.*, at 4.50. First half-year. First five lectures, Commissioner BROWN. Ten lectures, Professor HOUGH.

29. Industrial education. Definition of technical, manual, industrial and trade training, and their inter-relations. Brief historical survey of the industrial aspects of primitive, oriental, Greek, Roman, and Mediæval education. Full discussion of the present status of industrial training in Germany, France, England, and America. Present tendencies, problems and dangers. Lectures, assigned readings and reports. *Mo.*, at 4.50. Given 1908-09; not given 1909-10. Dr. MYERS.

30a. Class Management. A consideration of the practical problems of the classroom, including economy in class management, attendance, discipline, physical conditions, the daily program, and the technique of class instruction. Class discussions, lectures, and assigned readings. *Wed.*, 4.50. First half-year. Mr. KRAMER.

30b. School Supervision. A course involving the study of the relations of teachers to supervising officers, the principles of helpful criticism, the testing of class work, the conducting of teachers' meetings, and the rating of teachers. Class discussions, lectures, and assigned readings. *Wed.*, 4.50. Second half-year. Mr. KRAMER.

31a. Observation. Both the application of general educational principles and the methods of teaching particular subjects are systematically observed and discussed. First half-year. Two hours. Hours to be arranged. Assistant Professor RUEDIGER.

31b. Practice. The student-teacher is led in particular to form the connection between theory and practice and to establish right teaching habits. Second half-year. Two hours. Hours to be arranged. Assistant Professor RUEDIGER.

(Course 31 is open only to students registered in Teachers College, or to graduates taking a major or minor in Education.)

32. Adolescence. A consideration of the psychology of adolescence with special reference to the problems of secondary education. Lectures, readings, and special topics. One hour. (Not offered in 1909-10.) Dr. SMALL.

33. Foreign School Systems. A study of the school systems of Germany, England, and France, with a consideration of their bearing upon education in the United States. Lectures, assigned reading and discussions. Two hours. Second half-year. Not given in 1909-10.

*Third Section. Primarily for Graduates.*

40. Educational Theory. A research course in the history of educational doctrines with special reference to the development of philosophic thought and of general culture. Designed as an aid in the preparation and criticism of thesis material. Two hours. Professor HOUGH.

41. Research in Educational Psychology. Methods of investigation, followed by a review of typical studies. Texts: Thorndike's *Mental and Social Measurements*, monographs and periodical literature. Two hours. Hours to be arranged. Assistant Professor RUEDIGER.

**PHYSICS.**

EDWARD B. ROSA, Ph.D.....	Professor
EDGAR BUCKINGHAM, Ph.D.....	Lecturer
PERLEY G. NUTTING, Ph.D.....	Assistant Professor
EVERETT W. VARNEY, A.B.....	Instructor
.....	Instructor

*First Section. Primarily for Undergraduates.*

1. General Physics. A recitation and lecture course, embracing the fundamental principles of mechanics, sound, heat, light, and electricity. The lectures are illustrated by experiments. This is a required course for Sophomores in Engineering, and may be elected by the general student who has had a college course in trigonometry. *Mon., Wed., Fri.*, at 4.50.

2. Laboratory Physics. A selected series of experiments, mainly quantitative. Two two-hour periods. *Tu., Th.*, at 10.

3. Introductory General Physics. A lecture and recitation course, similar to Course 1, but less mathematical, and planned with reference to the needs of the general student. *Mon., Wed., Fri.*, at 1.30.

*Second Section. For Undergraduates and Graduates.*

21. Heat. A lecture and laboratory course, based on Preston's Theory of Heat and Poynting and Thomson's Heat. Three periods. *Mon., Wed., Fri.*, at 5.40.

22. Light. A lecture and laboratory course, based on Preston's Theory of Light and Schuster's Theory of Optics. Three periods. *Mon., Wed., Fri.*, at 11.



*Third Section. Primarily for Graduates.*

40. Light. Advanced study, experimental and mathematical, of some one branch of the subject.

41. Absolute Electrical Measurements. A course of lectures on the theory and practice of fundamental electrical measurements, including the more important methods for the measurement of resistance in absolute units, the absolute measurement of current and electromotive force, the determination of the ratio of the two systems of electrical units, the theory of various forms of condensers, the calculation of inductances from their dimensions, the experimental determination of capacities and inductances, and other important problems in electrical measurements. A brief history of the present electrical units and an account of the classical investigations by which their values have been determined will also be given. Professor ROSA.

42. Advanced Laboratory Work in Electrical Measurements. A course in advanced laboratory work in electrical measurements, for those who are qualified to undertake it. This may include a considerable range of work, or it may be research work on some important single subject. The amount and character of the work and the time and place at which it shall be done will be determined for each case separately. Professor ROSA.

43. Thermodynamics. An introduction to the general principles of the subject will be followed by applications to Physics and Physical Chemistry. Students should be familiar with Preston's "Theory of Heat" up to Thermodynamics, or with its equivalent. The course will be conducted by lectures with collateral reading. Dr. BUCKINGHAM.

44. Theory of Electricity. The course will be conducted by lectures with collateral reading in Maxwell, Heaviside, and Gray. Students must have had at least two years' training in Calculus, and be familiar with the ordinary phenomena of electrodynamics. Dr. BUCKINGHAM.

45. Spectroscopy. An experimental study of the flame, arc, spark, and vacuum tube spectra of the chemical elements; variations in spectra produced by varying excitation; spectra of mixed gases and alloys; identification of elements; photography of spectra. Assistant Professor NUTTING.

**POLITICAL SCIENCE.**

HOWARD LEE MCBAIN, Ph.D.....	Assistant Professor
ERNEST G. LORENZEN.....	Professor
JOHN M. HARLAN, LL.D.....	Lecturer
ALPHEUS H. SNOW, A.B., LL.B.....	Lecturer
PAUL CHARLTON .....	Lecturer
JACKSON H. RALSTON, LL.B., LL.D.....	Lecturer
.....	Instructor

*Second Section. For Undergraduates and Graduates.*

20. The American Governmental System. An introductory course for the study of federal government in the United States, discussing the fundamental nature of the union and the relation of the national government to the States, the territories, and the outlying possessions. First half-year. *Mon., Wed., Fri.*, 4.50 p. m. Assistant Professor McBAIN.

21. Actual American Government. A continuation of the preceding course, with emphasis upon the actual organization and operation of the national government. A study of Congress and the executive departments in action, and of the organization and control of political parties. Second half-year. *Mon., Wed., Fri.*, 4.50 p. m. Assistant Professor McBAIN.

22. Comparative State Government in the United States. A comparative study of the constitutions of the States of the American Union; a study of the powers, organization, and operation of State governments; the problem of local government in the United States; modern tendencies toward centralization of administration in the States. First half-year. *Tu., Th., Sat.*, 10 a. m. ———.

23. Municipal Government in the United States. A study of the organization and administration of city government in the United States with some comparative study of European conditions. The growth of cities; development of the legal position of the city; powers and liabilities of municipal corporations; municipal problems, such as those relating to local transportation, police, light and water supply, charities, education, municipal ownership of public utilities. First half-year. *Mon., Wed., Fri.*, 11 a. m. Assistant Professor McBAIN.

24. Municipal Government in Europe. The legal position of the European city; its powers and liabilities; governmental organization and methods of administration; municipal problems in Europe and how they have been met; municipal ownership. Second half-year. *Mon., Wed., Fri.*, 11 a. m. ———.

25. The Elements of Political Science. The origin, nature, and functions of the State; the fundamental political concepts such as the State, sovereignty, government, law, civil liberty; the forms of State; the forms of government; modern political theories. Two hours, first half-year. *Thu.*, 4.50 to 6.30 p. m. Assistant Professor McBAIN.

26. American Political Theories. A course discussing the development of American political ideas. Political theories of the colonial, the revolutionary, and the formative periods; the growth of democratic ideas; political theories of the slavery and Civil War controversies; modern political theories in America. First half-year. *Mon., Fri.*, 11 a. m. ———.



27. American Constitutional Law. An outline of the principles of the Federal Constitution as established and developed by judicial interpretation. Throughout the year. *Mon., Fri.*, 4.50 p. m. Mr. JUSTICE HARLAN.

28. Comparative Constitutional Law. A comparative study of the constitutions and governmental forms of the United States, Great Britain, France, Germany, and Switzerland as representing types of modern constitutional governments; some comparison these types with constitutional forms in other States. Two hours, second half-year. *Thu.*, 4.50 to 6.30. Assistant Professor MCBAIN.

*Third Section. For Graduates.*

40. Administrative Law. A study of the organization of national and State administrative systems and of the law governing official relations. First half-year. *Mon., Wed.*, 9 a. m. ————.

41. Private Rights and Immunities under the Constitution. An advanced course in Constitutional Law—a study of cases showing the development of federal protection of private rights and immunities as against the powers of the States. Remedies against the powers of the States; limitations on the powers of the States to deprive persons of life and liberty, to define and regulate the uses of property, to impose taxes, to impair the obligation of contracts, etc. Two hours, second half-year. *Tu.*, 4.50 to 6.30 p. m. Assistant Professor MCBAIN.

42. Colonial Government and Administration. A study of the past and present colonial systems of the world. Colonial institutions and methods of legislation; administration of finance, commerce, industrial development, labor, education in the colonies. The organization and administration of the insular possessions of the United States. First half-year. *Tu.*, 9 a. m. Mr. SNOW. Second half-year. *Tu., Th.*, 9 a. m. Mr. CHARLTON.

43. Roman Law. A comparison of some of the fundamental conceptions of the law of Rome and of the modern Civil Law with those of the Roman Law. Open only to students who have had instruction in American Law. Two hours, first half-year. (Hours to be announced on Law Schedule.) Professor LORENZEN.

44. Conflict of Laws or Private International Law. A course dealing with private law in its international aspects. Among the topics treated are marriage and divorce, guardianship, wills and the administration of estates, bankruptcy, and foreign judgments. Open only to students who have had instruction in the fundamental subjects of American Law. Four hours, second half-year. (Hours to be announced on Law Schedule.) Professor LORENZEN.

45. Spanish-American Law. Giving an outline of the legal systems prevailing in Central and South America, in Cuba, Porto Rico, and the

Philippine Islands, with emphasis upon their private laws, both civil and commercial, and their system of procedure. Open only to students who have had instruction in Roman law. Lectures, assigned reading, and reports. Two hours, second half-year. (Hours to be announced on Law Schedule.) Professor LORENZEN.

46. Seminar in Political Science. Students competent to undertake advanced work along special lines are admitted to this Seminar for the presentation and discussion of essays on topics belonging to the field of political science proper. Assistant Professor McBAIN.

### PREVENTIVE MEDICINE.

GEORGE M. STERNBERG, M.D., LL.D. .... Professor

#### *Third Section. Primarily for Graduates.*

40. Food preservatives in relation to the Public Health. The hygienic results of milk sterilization. The hygienic results of filtration of municipal water supplies. The use of chemical agents for the sterilization of water supplies, municipal or domestic. The results of legislative and philanthropic efforts to arrest the progress of tuberculosis in the United States, and especially in the principal cities.

### ROMANCE LANGUAGES AND LITERATURES.

GEORGE N. HENNING, A.M. .... Professor  
WILLIAM WEBB SNIFFIN, A.M. .... Assistant

### FRENCH.

#### *First Section. Primarily for Undergraduates.*

1. Grammar, composition, drill in pronunciation. Fraser and Squair's French Grammar. Translation and reading of nineteenth century fiction and history. (400-500 pages.) For beginners. *Mon., Wed., Fri.*, at 10.00. Professor HENNING.

2. Parallel with Course 1. *Tu., Th., Sat.*, at 5.40. Mr. SNIFFIN.

3. Translation, reading, grammar, composition. Fraser and Squair's French Grammar. Mérimée, *Colomba*; other texts to be announced. Open to students who have passed in French 1 or 2, or have fulfilled the admission requirements in Elementary French. *Mon., Wed., Fri.*, at 11. Professor HENNING.

4. Parallel with Course 3. *Tu., Th., Sat.*, at 4.50. Mr. SNIFFIN.

6. General survey of French literature, seventeenth to nineteenth centuries. Translation, collateral reading and reports thereon, lectures on literature and the history of the language, composition. Warren's French Prose of the Seventeenth Century, Canfield's French Lyrics, Lacombe's *Petite Histoire du peuple français*, Cran's *la Société fran-*



*çaise au XVII<sup>e</sup> siècle*, Corneille, Molière, La Fontaine, Racine, Saint-Simon, Montesquieu, Marivaux, Voltaire, Rousseau, Beaumarchais, Hugo, Musset, Michelet, Balzac, Augier, Maupassant, Pailleron, A. French, Bornier, Daudet. Open to students who have passed in Course 3 or 4, or have fulfilled the admission requirements in Advanced French. *Mon., Wed., Fri.*, at 2.30. Professor HENNING.

*Second Section. For Undergraduates and Graduates.*

Courses in this group are open to students who have passed in Course 6, or who otherwise satisfy the instructor of their fitness to take them.

21. Seventeenth century literature; history, philosophy, criticism, memoirs, letters, eloquence, drama, fiction, poetry. Balzac, Descartes, Pascal, La Rochefoucauld, La Bruyère, Boileau, Saint-Simon, Mme. de Sévigné, Bossuet, Corneille, Racine, Molière, Fénelon, Malherbe, La Fontaine, etc. Translation, collateral reading and reports thereon, lectures on literature and history. Thesis. Not given in 1909-10.

23. Eighteenth century literature; history, philosophy, criticism, letters, drama, fiction, poetry. Montesquieu, Diderot, Rousseau, Voltaire, Marivaux, Destouches, Sedaine, Beaumarchais, Bernardin de St. Pierre, André Chénier, etc. Translation, collateral reading and reports thereon, lectures on literature and history. Thesis.

25. Nineteenth century literature; history, philosophy, criticism, memoirs, travels, fiction, drama, lyric poetry. Thierry, Michelet, Miguet, Thiers, Taine, Saint-Beuve, Brunetière, France Lemaitre, Renan, Gautier, Mme. de Staël, Chateaubriand, Hugo, George Sand, Mérimée, Balzac, Flaubert, Daudet, Maupassant, Loti, Musset, Dumas fils, Augier, Maeterlinck, Rostand, Lamartine, Vigny, the Romantic poets, the Parnassians, the Symbolists, etc. Translations, collateral reading and reports thereon, lectures on literature and history. Thesis. *Mon., Wed., Fri.*, 1.30. Professor HENNING.

*Third Section. Primarily for Graduates.*

43. Old French and philology. Darmesteter's Historical French Grammar. *La Chanson de Roland*, etc. Professor HENNING.

47. The comedies of Molière. Professor HENNING.

50. The Romantic Movement in France with some reference to the same movement in England and Germany. Professor HENNING.

Other courses may be arranged for competent graduates.

SPANISH.

*First Section. Primarily for Undergraduates.*

1. Grammar, composition. Hills and Ford's Spanish Grammar. Translations and reading of nineteenth century fiction and drama. Open

to first-year students only by permission of the instructor. Open only to students who have had at least one year of French or Latin. Students may not elect Spanish and Italian in the same year. *Tu., Th., Sat.* at 10. Professor HENNING.

*Second Section. For Undergraduates and Graduates.*

20. Translation and reading of nineteenth and seventeenth century works; history, fiction, drama, lyric poetry. Lectures on literature and history. Open to students who have passed in Course 1 with at least the grade of C, or who otherwise satisfy the instructor of their fitness to take the course. Not given in 1909-10. Two hours.

ITALIAN.

*First Section. Primarily for Undergraduates.*

1. Grammar, composition. Grandgent's Italian Grammar, Bowen's Italian Reader. Translation and reading of nineteenth century fiction and drama. Open to first-year students only by permission of the instructor. Open only to students who have had at least one year of French or Latin. Students may not elect Italian and Spanish in the same year. Not given in 1909-10.

FEES.

ARTS AND SCIENCES.

1. Matriculation fee (payable once).....	\$5
2. Annual library fee... ..	2
3. Tuition fee per annum for graduate courses leading to the degrees of M.A., M.S., C.E., E.E., M.E., Jur.D., and Ph.D. ....	150
Where candidates for higher degrees exceed the minimum time limit they may be liable for an additional charge of \$40 per annum for each topic pursued by them.	
4. Tuition fee per annum for each hour per week of undergraduate courses leading to the degrees of B.A. and B.S., and for graduate courses leading to the degree of M.Dip. ....	10
5. Late registration fee in the case of students registering for the first term after October 20, or for the second term after February 20, except for courses which do not begin with the terms .....	2
6. Tuition fee for each year of the regular four-year courses in the College of Engineering.....	150



## 7. Laboratory courses:

## Material fees:

Mineralogy .....	5
Chemistry 2, 3, and 7; Electrical Engineering; Physics, each .....	10
Chemistry, 4 (Assaying).....	20
Chemistry, except 2, 3, 4 and 7, each.....	25

Deposits to cover breakage of apparatus issued, the amounts paid in excess of breakage to be returned:

Chemistry, 2, 3, and 7, each.....	10
Chemistry, except 2, 3, 4, and 7, each.....	25

8. Fee for graduation .....

9. Tuition fee for each of the following special courses, not taken by candidates for a degree.....

Architecture, Courses 37 and 38.

Chemistry, Course 4 (Assaying).

10. In determining tuition fees, four hours of laboratory work in Architecture, three hours of laboratory work in Chemistry, and two hours of laboratory work in other subjects count as one hour.

11. Fee for a certificate under the seal of the University.....

No change will be made in the fees fixed at the time of registration except in the case of a change in or withdrawal from a course of study, and then only upon notice in due form and from the end of the current quarter session when such change or withdrawal shall be approved. Applications for permission to change a course of studies or for the granting of a withdrawal should be made on the prescribed form to be obtained from the Secretary and will be received only at the end of a quarter session.

## PAYMENT OF FEES.

All fees are to be paid to the Treasurer. Tuition fees are payable quarterly in advance. Matriculation, library, and laboratory fees are payable in full in advance.

## BOARD AND ROOMS.

A register of approved boarding houses is kept by the Treasurer. Accommodations cost from \$25 to \$40 a month. Board and rooms for woman students are offered in the Woman's Building at \$30 to \$35 per month. Woman students may apply to the Dean of Women.

HONORABLE DISMISSION.

An honorable dismission will always be issued to any student who has been granted a withdrawal from the University in good standing.

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For catalogues, application blanks, and further information, address

THE SECRETARY,  
*The George Washington University,*  
*Washington, D. C.*



# Students in the University.

## DEPARTMENT OF ARTS AND SCIENCES.

### GRADUATE STUDIES.

#### In Attendance.

Name.	Legal residence.	City address.
Clark, Burton William.....	N. Y. ....	927 Rhode Island Ave.
B.S., 1907, M.S., 1908, Syracuse University.		
<i>Topic</i> —Geology.		
Cole, Frank .....	Okla. ....	College Park, Md.
B.S., 1908, Oklahoma Agricultural and Mechanical College.		
<i>Topic</i> —Chemistry.		
Deal, Alice .....	Md. ....	The Susquehanna.
A.B., 1899, Woman's College, Baltimore, Md.		
<i>Topic</i> —Physics.		
Fox, Paul Jefferson.....	Ill. ....	Bureau of Chemistry.
B.Sc., 1900, University of Chicago.		
<i>Topics</i> —Chemistry, Geology, Bacteriology.		
Garton, Alfred Clarke.....	Mich. ....	2140 N Street.
M.D., 1907, The George Washington University.		
<i>Topics</i> —Bacteriology, Bio-chemistry, French.		
Gates, Edward Percy.....	Ark. ....	3506 Center Street.
B.A., 1908, The George Washington University.		
<i>Topics</i> —Economics.		
Huntington, Carl Douglas.....	N. Y. ....	Patent Office.
A.B., 1908, Hamilton College.		
<i>Topics</i> —Chemistry, Physics.		
Jacobsen, Karl Theodore.....	Wis. ....	218 A Street, S. E.
B.A., 1902, Luther College.		
M.A., 1906, University of Wisconsin.		
<i>Topics</i> —Greek, Latin.		
Nolan, Thomas Brew, Jr.....	D. C. ....	The Hawarden.
B.S., 1907, Pennsylvania State College.		
<i>Topics</i> —Civil Engineering, Hydraulic Engineering.		
Palmore, Julian Ivanhoe.....	Va. ....	Bureau of Chemistry.
B.S., 1902, M.S., 1904, Virginia Polytechnic Institute.		
<i>Topic</i> —Chemistry.		
Pollock, William McCally.....	W. Va. ....	332 Indiana Ave.
A.B., 1898, University of West Virginia.		
<i>Topic</i> —Chemistry.		

Name.	Legal residence.	City address.
Turkenton, William James.....	D. C. ....	1513 33d Street.
B.S., in C.E., 1908, The George Washington University.		
Topic—Advanced Masonry.		
Valaer, Peter, Jr.....	N. C. ....	421 P Street.
B.S., in Chem., 1906, North Carolina Agricultural and Mechanical College.		
Topic—Chemistry.		
Whitehead, John Roy.....	Ohio .....	War Department.
E.E., 1907, Purdue University.		
Topic—Mathematics.		

## Doctor of Civil Law.

Miller, Clarence Alphonso.....	Mo. ....	Matamoras, Mexico.
LL.B., 1899, Kansas City School of Law.		
LL.M., 1903, M. Dip., 1906, The George Washington University.		
Shibley, George Henry.....	D. C. ....	The Ontario.

## Civil Engineer.

Adams, Raymond Edmond.....	Pa. ....	707 22d Street.
A.B., 1891, Central High School, Philadelphia, Pa.		
Senior, Thomas Richard.....	D. C. ....	203 Elm Street.
B.S., in C.E., 1908, The George Washington University.		
Starr, Frank Charles.....	Nova Scotia.	1530 I Street.
S.B., 1905, Massachusetts Institute of Technology.		

## Electrical Engineer.

Gordon, Hayner Haskell.....	Ohio .....	1310 Girard Street.
B.S., in C.E., 1908, The George Washington University.		
Honn, Harlan Verne.....	D. C. ....	400 8th Street, N. E.
B.S. in E.E., 1909, The George Washington University.		
Mortimer, Charles Ward.....	Miss. ....	1530 I Street.
B.S., 1902, Mississippi College.		
M.E., 1907, Cornell University.		
Steele, Frank Bailey.....	W. Va. ...	2024 G Street.
Graduate from Virginia Military Institute.		

## Master of Science.

Allen, Edward Riley.....	Ill. ....	1225 11th Street.
B.L.A., 1906, University of Illinois.		
Topics—Major, Chemistry; Minors, German, Geology.		



Name.	Legal residence.	City address.
Birtwell, Bertha .....	D. C. ....	The Congressional. A.B., 1908, The George Washington University. <i>Topics</i> —Major, Mathematical Physics; Minors, Mathematics, Astronomy.
Boughton, Everett William.....	N. Y. ....	917 16th Street. B.S. in Chemistry, 1903, Polytechnic Institute of Brooklyn. <i>Topics</i> —Major, Chemistry; Minors, Bacteriology, Pathology, Physiology.
Kibler, Alton Lewin.....	Va. ....	1323 R Street. A.B., 1904, Randolph-Macon College. <i>Topics</i> —Major, Chemistry; Minors, Agricultural Chemistry, Bacteriology.
McElfresh, Ralph Finley.....	D. C. ....	309 M Street. C.E., 1908, Lehigh University. <i>Topics</i> —Major, Economics; Minors, Mathematics, Hydraulic Engineering.
Sanders, Frances .....	D. C. ....	1360 Kenyon Street. B.S., 1901, Columbian University. <i>Topics</i> —Major, Mathematics; Minors, Applied Mechanics, Psychology.
Shively, Robert Rex.....	Okla. ....	1221 O Street. B.S., 1902, Oklahoma Agricultural and Mechanical College. <i>Topics</i> —Major, Chemistry; Minors, German, Micro- scopic Foods and Drugs.
Sterrett, John Adlum.....	D. C. ....	Springland, Pierce Mill Road, D. C. B.S., 1908, The George Washington University. <i>Topics</i> —Major, Electrical Engineering; Minors, Me- chanical Engineering, Mathematics.
Swett, Otis Dow.....	Md. ....	Chevy Chase, Md. LL.B., 1891, LL.M., 1892, Columbian University. B.S., 1904, The George Washington University. <i>Topics</i> —Major, Chemistry; Minor, Chemistry.

#### Master of Arts.

Allis, Frank Coy.....	N. Y. ....	1751 Willard Street. LL.B., 1903, Cornell University. LL.M., 1906, A.B., 1908, The George Washington University. <i>Topics</i> —Major, Economics; Minors, Political Science, Law.
Baker, Anthusa Jeanette.....	D. C. ....	62 Rhode Island Ave. A.B., 1907, Wittenberg College. <i>Topics</i> —Major, Education; Minors, Greek, Latin.

Name.	Legal residence.	City address.
Baldwin, Edward Damon.....	Ore. ....	1736 G Street.
B.L., 1906, Whitman College.		
<i>Topics</i> —Major, Sociology; Minors, Public Law, Political Science.		
Barbour, Alice Maud.....	Conn. ....	1738 N Street.
B.S., 1893, Wellesley College.		
<i>Topics</i> —Major, English; Minors, English, Sociology.		
Barney, Ellen Sybil.....	Wis. ....	The Hamilton.
B.A., 1903, University of Wisconsin.		
<i>Topics</i> —Major, History; Minors, German, English.		
Churchill, George Morton.....	Mass. ....	118 5th Street, S. E.
A.B., 1896, Boston University.		
<i>Topics</i> —Major, History; Minors, History, Political Science.		
Drummond, Mary Walter.....	D. C. ....	1262 Columbia Road.
A.B., 1905, Woman's College of Baltimore.		
<i>Topics</i> —Major, Education; Minors, Psychology, Latin.		
Ely, Selden Marvin.....	D. C. ....	50 S Street.
LL.B., 1894, LL.M., 1895, B.A., 1908, The George Washington University.		
<i>Topics</i> —Major, Education; Minors, Psychology, Sociology.		
Gudmunsen, Marian A. (Mrs.)...	Idaho ....	1219 I Street.
A.B., 1903, University of Utah.		
<i>Topics</i> —Major, Sociology; Minors, English, History.		
Hare, Butler Black.....	S. C. ....	1404 L Street.
A.B., 1899, Newberry College.		
<i>Topics</i> —Major, History; Minors, Economics, Political Science.		
Hopson, Howard Colwell.....	Wis. ....	Interstate Commerce Commission.
B.A., 1908, The George Washington University.		
<i>Topics</i> —Major, Political Science; Minors, Political Economy, History.		
Kramer, Stephen Elliott.....	D. C. ....	1318 S Street.
B.S., 1906, The George Washington University.		
<i>Topics</i> —Major, Education; Minors, Psychology, Education.		
Lampson, Lawrence Vincent.....	Ohio ....	1011 B Street, N. E.
A.B., 1906, Oberlin College.		
<i>Topics</i> —Major, English; Minors, History, Education.		
Lowe, Henry Francis.....	D. C. ....	215 5th Street, N. E.
LL., 1890, College of William and Mary.		
B.S., 1903, The George Washington University.		
<i>Topics</i> —Major, Education; Minors, Education, Sociology.		



Name.	Legal residence.	City address.
McAvoy, Catharine Agatha.....	D. C. ....	1917 17th Street.
A.B., 1908, The George Washington University.		
<i>Topics</i> —Major, Latin; Minors, French, German.		
Miller, Alvin Wilson.....	Ill. ....	2914 N Street.
B.S., 1908, The George Washington University.		
<i>Topics</i> —Major, Mathematics; Minors, Electrical Engineering, Physics.		
Nin-Frias, Albert .....	Uruguay ..	1410 21st Street.
B.A.S., 1907, Montevideo University.		
<i>Topics</i> —Major, Sociology; Minors, Philosophy, English.		
Owens, Oscar Lee.....	Md. ....	Cambridge, Md.
B.D., 1905, Rochester Theological Seminary.		
<i>Topics</i> —Major, English; Minors, Philosophy, Sociology.		
Paddock, Ernest Moorhead.....	Pa. ....	934 North Ave., Allegheny, Pa.
B.A., 1894, University of Pennsylvania.		
Graduate, 1897, Episcopal Theological School, Cambridge, Mass.		
<i>Topic</i> —Philosophy.		
Schoenfeld, Hans Fr. Arthur....	D. C. ....	3448 34th Place, Cleveland Park.
B.A., 1907, The George Washington University.		
<i>Topics</i> —Major, History; Minors, History, English.		
Simmons, William Wyatt.....	Miss. ....	708 10th Street.
B.A., 1905, Mississippi College.		
<i>Topics</i> —Major, Sociology; Minors, Economics, History.		
Stevens, William Spring.....	Me. ....	1012 14th Street.
A.B., 1906, Colby College.		
<i>Topics</i> —Major, Political Science; Minors, International Law, Economics.		
Sullivan, Francis Paul.....	D. C. ....	1823 U Street.
A.B., 1904, Georgetown University.		
<i>Topics</i> —Major, Architecture; Minors, Philosophy, Classical Archaeology, Architecture.		
Thomas, William John Denzilo..	D. C. ....	1530 29th Street.
<i>Topics</i> —Major, History; Minors, Philosophy, Sociology.		
Van Vleck, William Cabell.....	D. C. ....	800 E Street, N. E.
B.A., 1908, The George Washington University.		
<i>Topics</i> —Major, History; Minors, Economics, Education.		
Walsh, Daniel Michael.....	Vt. ....	U. S. Bureau of Chemis- try, St. Paul, Minn.
B.S., 1904, University of Vermont.		
<i>Topics</i> —Major, Economics; Minors, History, Political Theories.		

Name.	Legal residence.	City address.
Watkins, Rhoda .....	Penna. ....	1412 14th Street.
A.B., 1906, The George Washington University.		
<i>Topics</i> —Major, English; Minors, English, German.		
White, Emilie Margaret.....	D. C. ....	1568 University Place.
A.B., 1907, The George Washington University.		
<i>Topics</i> —Major, German; Minor, History.		
Wrightson, James Owens.....	D. C. ....	812 20th Street.
A.B., 1909, The George Washington University.		
<i>Topics</i> —Major, Sociology; Minors, Semitics, History.		
Young, Julia Elektra Ludlow		
(Mrs.) .....	N. Y. ....	Nat'l Cathedral School.
B.A., 1906, Barnard College, Columbia University.		
<i>Topics</i> —Major, Latin; Minors, Greek, Archaeology.		

## Doctor of Jurisprudence.

Willard, Charles Franklin.....	Mass. ....	1340 Girard Street.
B.S. in M.E., 1901, B.S. in Naval Architecture,		
1902, Massachusetts Institute of Technology.		
J.B., 1906, J.M., 1907, Boston University Law		
School.		
<i>Topics</i> —Major, Corporations; Minors, Constitu-		
tional Law, Corporation Finance.		

## Doctor of Philosophy.

Alden, Levi Russell.....	D. C. ....	809 L Street.
B.A., 1903, M.A., 1904, Columbian University.		
<i>Topics</i> —Major, History; Minors, Law, History.		
Backus, Cyrus Day.....	N. Y. ....	U. S. Patent Office.
Ph.B., 1896, LL.B., 1896, Cornell University.		
B.S., 1904, Columbian University.		
M.S., 1905, The George Washington University.		
<i>Topics</i> —Major, Electrical Engineering; Minors,		
Physics, Chemistry.		
Bates, Carleton .....	Mass. ....	205 D Street.
B.S., 1908, Boston University.		
<i>Topics</i> —Major, Bacteriology; Minors, Biochemistry,		
German.		
Betts, Philander .....	N. J. ....	The Oakland.
B.S., 1891, M.S., 1895, Rutgers College.		
E.E., 1903, Columbian University.		
<i>Topics</i> —Major, Electrical Engineering; Minors,		
Chemistry, Mathematics.		
Bolger, William Augustine.....	Mich. ....	Holy Cross College.
		Brookland, D. C.
Ph.B., 1907, University of Notre Dame.		
<i>Topics</i> —Major, Economics; Minors, Sociology, Polit-		
ical Science.		



Name.	Legal residence.	City address.
Church, Calvin Grant.....	Md. ....	111 12th Street, S. E.
B.S., 1900, Maryland Agricultural College.		
M.S., 1902, Columbian University.		
<i>Topics</i> —Major, Chemistry; Minor, Chemistry.		
Clark, Marion .....	Md. ....	1329 N Street.
B.A., 1901, M.A., 1903, Western Maryland College.		
<i>Topics</i> —Major, History; Minors, Law, Political Science.		
Coffey, George Nelson.....	N. C. ....	Bureau of Soils.
Ph.B., 1900, University of North Carolina.		
M.S., 1908, The George Washington University.		
<i>Topics</i> —Major, Geology; Minors, Mineralogy, Meteorology.		
Custis, Horace Hatch.....	D. C. ....	912 15th Street.
A.B., 1906, Johns Hopkins University.		
M.A., 1908, The George Washington University.		
<i>Topics</i> —Major, Chemistry; Minors, Geology, Bacteriology.		
Deis, John Homer.....	D. C. ....	119 B Street, S. E.
LL.B., 1902, Columbian University.		
M.A., 1908, The George Washington University.		
<i>Topics</i> —Major, History; Minors, History, Sociology.		
Doyle, Aida Mary.....	Pa. ....	1123 Dartmouth Street.
B.S., 1898, M.S., 1899, Columbian University.		
<i>Topics</i> —Major, Agricultural Chemistry; Minors, Chemistry, Microscopic Foods and Drugs.		
Edler, August Friedrich W.....	Germany ..	3513 Center Street.
B.A., 1906, M.A., 1907, M. Dip., 1908, The George Washington University.		
<i>Topics</i> —Major, Germanics; Minors, Political Theory, History.		
Frost, Wesley .....	Ky. ....	1117 17th Street.
A.B., 1907, Oberlin College.		
<i>Topics</i> —Major, Economics; Minors, Law, History.		
Gardner, James Henry.....	Ky. ....	Geological Survey.
B.S., 1900, M.S., 1906, Kentucky State College.		
<i>Topics</i> —Major, Geology; Minors, Geology, Zoölogy.		
Gilbert, Walter Merwin.....	N. Y. ....	Bond Building.
B.S., 1899, College of City of New York.		
<i>Topics</i> —Major, Philosophy; Minors, Philosophy, English.		
Hall, Percival .....	D. C. ....	Kendall Green.
A.B., 1892, Harvard University.		
M.A., 1893, Gallaudet College.		
M.A., 1898, Columbian University.		
<i>Topics</i> —Major, Mathematics; Minors, Applied Mathematics, Astronomy.		

- | Name.  | Legal residence. | City address.                       |
|--|------------------|-------------------------------------|
| Heth, Eva Virginia.....  | D. C. ....       | 1759 Church Street.                 |
| A.B., 1892, A.M., 1893, Columbian University.                                  |                  |                                     |
| <i>Topics</i> —Major, Latin; Minors, German, Classical Archaeology.            |                  |                                     |
| Hillyer, William Eldridge.....   | D. C. ....       | 1365 Park Road.                     |
| B.S., 1899, M.S., 1900, Columbian University.                                  |                  |                                     |
| <i>Topics</i> —Major, Chemistry; Minors, Chemistry, Electrical Engineering.    |                  |                                     |
| Hinman, Ida .....  | Iowa .....       | 727 Morgan Street,<br>Keokuk, Iowa. |
| B.S., 1892, A.M., 1902, Columbian University.                                  |                  |                                     |
| <i>Topics</i> —Major, English; Minors, German, French.                         |                  |                                     |
| Houghton, Harry Wilson.....  | Md. ....         | Bureau of Chemistry.                |
| B.S. in Chemistry, 1906, M.S., 1907, The George Washington University.         |                  |                                     |
| <i>Topics</i> —Major, Chemistry; Minors, Anatomy, Histology.                   |                  |                                     |
| Huddle, John Thomas.....   | Va. ....         | 738 11th Street.                    |
| A.B., 1891, A.M., 1896, Roanoke College.                                       |                  |                                     |
| Diploma in Divinity, 1896, Gettysburg Theological Seminary.                    |                  |                                     |
| <i>Topics</i> —Major, Psychology; Minors, Sociology, English.                  |                  |                                     |
| Kibler, Alton Lewis.....   | Va. ....         | 1323 R Street.                      |
| A.B., 1904, Randolph-Macon College.  |                  |                                     |
| <i>Topics</i> —Major, Chemistry; Minors, Agricultural Chemistry, Bacteriology. |                  |                                     |
| Kibler, Thomas Latimer.....  | Va. ....         | 1323 R Street.                      |
| A.B., 1904, Randolph-Macon College.  |                  |                                     |
| M.A., 1908, The George Washington University.                                  |                  |                                     |
| <i>Topics</i> —Major, Economics; Minors, European Diplomacy, Sociology.        |                  |                                     |
| Kimball, Herbert Harvey.....   | N. H. ....       | Library, U. S. Weather<br>Bureau.   |
| B.S., 1884, New Hampshire College of Agriculture and Mechanic Arts.            |                  |                                     |
| M.S., 1900, Columbian University.  |                  |                                     |
| <i>Topics</i> —Major, Astro-Physics; Minor, Meteorology.                       |                  |                                     |
| Lyon, Marcus Ward, Jr.....   | N. J. ....       | National Museum.                    |
| Ph.B., 1897, Brown University.   |                  |                                     |
| M.S., 1900, M.D., 1902, Columbian University.                                  |                  |                                     |
| <i>Topics</i> —Major, Zoölogy; Minors, Neurology, Histology.                   |                  |                                     |
| McBryde, Charles Neil.....   | Va. ....         | 1736 G Street.                      |
| B.S., 1891, University of South Carolina.                                      |                  |                                     |
| M.S., 1893, The Virginia Polytechnic Institute.                                |                  |                                     |
| M.D., 1897, The Johns Hopkins University.                                      |                  |                                     |
| <i>Topics</i> —Major, Preventive Medicine; Minors, Botany, Geology.            |                  |                                     |



- | Name.  | Legal residence. | City address.   |
|--|------------------|---|
| MacDonald, Donald Francis.....                                       | Wash. ....       | Geological Survey.  |
| B.S., 1905, University of Washington State.                          |                  |   |
| M.S., 1906, The George Washington University.                        |                  |   |
| <i>Topics</i> —Major, Geology; Minors, Paleontology,<br>English.     |                  |   |
| Mattern, John .....  | Germany ..       | 431 6th Street.   |
| 1904, <i>abitur</i> , Cleve Gymnasium.                               |                  |   |
| 1904-6, Universities of Münster and Bonn.                            |                  |   |
| <i>Topics</i> —Major, German; Minors, Latin, Greek.                  |                  |   |
| Mattern, Louis Wilson.....   | Pa. ....         | McKinley School.  |
| B.S., 1894, Pennsylvania State College.                              |                  |   |
| <i>Topics</i> —Major, Chemistry; Minor, Chemistry.                   |                  |   |
| Mills, Joseph Strayer.....   | Md. ....         | High School of Com-<br>merce, New York City.                    |
| B.A., 1890, M.A., 1893, Western Maryland Col-<br>lege.               |                  |   |
| <i>Topics</i> —Major, Chemistry; Minors, Mineralogy,<br>Physica.     |                  |   |
| Newberne, Robert Edward Lee...                                       | Texas ....       | Bureau of Health, In-<br>terior Dept., Philip-<br>pine Islands. |
| M.D., 1893, Georgetown University.                                   |                  |   |
| D.D.S., 1898, Tacoma College Dental Surgery.                         |                  |   |
| B.S., 1901, M.S., 1901, Columbian University.                        |                  |   |
| <i>Topics</i> —Major, Neurology; Minors, Anatomy,<br>Physiology.     |                  |   |
| Nin-Frias, Albert .....  | Uruguay ..       | 1410 21st Street.   |
| B.A.S., 1907, Montevideo University.                                 |                  |   |
| <i>Topics</i> —Major, Sociology; Minors, Philosophy,<br>English.     |                  |   |
| Orth, Henry, Jr.....   | D. C. ....       | 1011 L Street.  |
| M.E., 1893, Lehigh University.                                       |                  |   |
| M.S., 1899, Columbian University.                                    |                  |   |
| <i>Topics</i> —Major, Chemistry; Minor, Chemistry.                   |                  |   |
| Patrick, George Edward.....  | Iowa ....        | Dept. of Agriculture.   |
| B.S., 1893, M.S., 1894, Cornell University.                          |                  |   |
| <i>Topics</i> —Major, Chemistry; Minors, Bacteriology,<br>Chemistry. |                  |   |
| Phalen, William Clifton.....   | Mass. ....       | Geological Survey.  |
| S.B., 1899, S.M., 1902, Massachusetts Institute of<br>Technology.    |                  |   |
| <i>Topics</i> —Major, Geology; Minors, Petrography,<br>Paleontology. |                  |   |
| Pierce, Ulysses Grant Baker.....                                     | D. C. ....       | 1616 Riggs Place.   |
| B.D., 1890, Hillsdale College.                                       |                  |   |
| <i>Topics</i> —Major, Philosophy; Minors, Æsthetics,<br>English.     |                  |   |

- | Name.  | Legal residence. | City address.          |
|--|------------------|------------------------|
| Portner, Edward George.....  | D. C. ....       | Alexandria, Va.        |
| B.S., 1897, M.S., 1898, Columbian University.                                  |                  |                        |
| <i>Topics</i> —Major, Chemistry; Minor, Chemistry.                             |                  |                        |
| Roark, Ruric Creegan.....  | Ky. ....         | 900 14th Street.       |
| B.A., 1907, University of Cincinnati.  |                  |                        |
| M.A., 1908, University of Illinois.  |                  |                        |
| <i>Topics</i> —Major, Bacteriology; Minors, Materia Medica, Pharmacology.      |                  |                        |
| Ross, George Albert.....   | Mo. ....         | 2518 13th Street.      |
| B.A., 1893, William Jewell College.  |                  |                        |
| M.A., 1898, Columbian University.  |                  |                        |
| <i>Topics</i> —Major, Mathematics; Minors, Education, Applied Mathematics.     |                  |                        |
| Shepherd, William Thomas.....  | Ark. ....        | 442 Massachusetts Ave. |
| B.Sc., 1899, Ph.D., 1901, Gale College.  |                  |                        |
| M.A., 1903, M.S., 1906, Oklahoma State University.                             |                  |                        |
| <i>Topics</i> —Major, Psychology; Minors, Philosophy, Education.               |                  |                        |
| Smith, John William.....   | D. C. ....       | 125 11th Street, N. E. |
| A.B., 1901, Randolph-Macon College.  |                  |                        |
| <i>Topics</i> —Major, Philosophy; Minors, History, Semitics.                   |                  |                        |
| Solyom, Herbert Louis.....   | Md. ....         | U. S. Patent Office.   |
| B.S., 1902, M.S., 1903, Columbian University.                                  |                  |                        |
| <i>Topics</i> —Major, Astro-Physics; Minors, Economics, Meteorology.           |                  |                        |
| Stevens, William Spring.....   | Me. ....         | 1012 14th Street.      |
| A.B., 1906, Colby College.   |                  |                        |
| <i>Topics</i> —Major, Political Science; Minors, International Law, Economics. |                  |                        |
| Stiles, George Whitfield, Jr.....  | Okla. ....       | 4820 Iowa Ave.         |
| B.S., 1900, Oklahoma Agricultural and Mechanical College.                      |                  |                        |
| M.D., 1905, The George Washington University.                                  |                  |                        |
| <i>Topics</i> —Major, Bacteriology; Minors, Biochemistry, Medicine.            |                  |                        |
| Townsend, Chas. Henry Tyler...   | D. C. ....       | National Museum.       |
| B.S., 1908, The George Washington University.                                  |                  |                        |
| <i>Topics</i> —Major, Zoölogy; Minors, Geology, Botany.                        |                  |                        |
| Waring, Luther Hess.....   | Pa. ....         | 1503 30th Street.      |
| Graduate of Lutheran Theological Seminary, Gettysburg, Pa., 1896.              |                  |                        |
| B.A. (pro forma), The George Washington University.                            |                  |                        |
| M.A., 1904, Columbian University.  |                  |                        |
| <i>Topics</i> —Major, Germanics; Minors, Philosophy, Political Science.        |                  |                        |



Name.	Legal residence.	City address.
Wilkinson, Oscar .....	Miss. ....	1404 L Street.
M.D., 1896, Tulane University.		
Ph.B., 1902, University of Mississippi.		
M.A., 1903, Columbian University.		
Topics—Major, Physiological Optics; Minors, Therapeutics, Medicine.		
Witherspoon, Thomas Alfred....	Tenn. ....	26 Iowa Circle.
1883, Graduated from U. S. Naval Academy.		
LL.B., 1891, M.S., 1897, Columbian University.		
Topics—Major, Chemistry; Minors, Chemistry, Electricity.		
Woodward, Sherman Melville...Ariz. ....		Dept. of Agriculture.
M.S., 1893, Washington University, St. Louis.		
M.A., 1896, Harvard University.		
Topics—Major, Applied Mathematics; Minors, Mechanical Engineering, Hydraulic Engineering.		
Wrightson, James Owens.....	D. C. ....	812 20th Street.
Topics—Major, Sociology; Minors, Semitics, History.		
Zerhusen, Frank Xavier.....	Ky. ....	Holy Cross College, Brookland, D. C.
A.B., 1906, University of Notre Dame.		
Topics—Major, German; Minors, German, Semitics.		

#### UNDERGRADUATE COLLEGES AND DIVISIONS.

The following list includes all undergraduate students. The registration is indicated by the abbreviations: C.C. for Columbian College; Eng. for Washington College of Engineering; Arch. for Division of Architecture; Ed. for Division of Education. The letters c, e, and m. after the abbreviation Eng., indicate that the student is a candidate for the bachelor's degree in Civil, Electrical, or Mechanical Engineering; the absence of these letters indicates a special student.

Name.	Legal residence.	City address.
Abbe, Edward H., Ed.....	Mass. ..	The Baltimore.
M.D., Long Island College Hospital.		
Acker, Kemp Gerard, Eng.m.....	D. C. ..	913 16th Street.
Adams, B. Bouis, Arch.....	D. C. ..	2910 13th Street.
Adams, Raymond Edmond, Eng.c...Pa. ....		707 22d Street.
Adams, Vera Elsie, C.C.....	D. C. ..	128 C Street, N. E.
Affleck, Mrs. Philip G., Ed.....	D. C. ..	3440 34th Place, Cleveland Park.
Alden, Anna Grace, C.C.....	D. C. ..	809 L Street.
Alden, Levietta Ruth, C.C.....	D. C. ..	809 L Street.
Allen, Anna, C.C.....	D. C. ..	1419 Q Street.
Alston, Larkin Roy, C.C.....	La. ....	1005 13th Street.

Name.	Legal residence.	City address.
Alvord, Katharine, C.C.....	D. C.	..The Ontario.
Anderson, Henry Melville, C.C.....	D. C.	..3042 R Street.
Arminger, S. Elmer, Arch.....	Md.	..1527 I Street.
Atlee, Anna May, Ed.....	D. C.	..1322 S Street.
Austin, Ella Morgan, C.C.....	D. C.	..425 P Street.
Bache, Louise, C.C.....	D. C.	..1326 R Street.
Baer, David Alphonse, C.C.....	D. C.	..3044 N Street.
Bailey, Helen Carlotta, C.C.....	Mass.	..1903 H Street.
Baker, Effie Kline, C.C.....	D. C.	..1728 Columbia Road.
Baker, Jessie Esther, Ed.....	D. C.	..1764 U Street.
Baker, John Earl, C.C.....	Wis.	..2012 G Street.
Ph.B., 1906, University of Wisconsin.		
Baker, Wallace M., Eng.....	D. C.	..2301 N Street.
Ball, W. C. Cooley, Eng.c.....	Md.	..602 Park Road.
Balloch, Agnes McGrew, C.C.....	D. C.	..1013 15th Street.
Barnes, Julian Francis, Eng.c.....	D. C.	..2433 Wisconsin Avenue.
Bashford, Margaret J., Ed.....	Va.	..Alexandria, Va.
Baston, George Henry, C.C.....	Me.	..918 M Street.
Bauerman, Marian, Ed.....	D. C.	..317 N Street, S. W.
Bayly, Howard Paul, Eng.c.....	D. C.	..1333 11th Street.
Beale, Hilda, C.C.....	D. C.	..1820 Kalorama Road.
Beckwith, Minerva Griswold, C.C.....	Mich	..1906 H Street.
Beekly, Albert Leon, C.C.....	Nebr.	..1014 15th Street.
Beers, Anne, Ed.....	D. C.	..117 4th Street, S. E.
Berry, James William, C.C.....	D. C.	..14 3d Street, S. E.
Berry, Louise, Ed.....	Md.	..1919 K Street.
Besselievre, Nellie Ecker, C.C.....	D. C.	..315 E Street, N. E.
Betts, Ada Rebecca, Ed.....	D. C.	..511 B Street, N. E.
Bicknell, Clarence Scott, C.C.....	Ill.	..904 K Street.
Biondi, Harry James, Eng.....	D. C.	..508 7th Street, S. E.
Blackley, R. Bassett, Arch.....	Texas	..1412 Mass. Avenue.
Blasey, Joseph, Arch.....	D. C.	..214 Arthur Place.
Bliss, Henry Harmon, C.C.....	D. C.	..1923 15th Street.
Blount, Walter Eames, C.C.....	D. C.	..3101 R Street.
Boesch, Paul Raymond, Eng.m.....	D. C.	..616 E Street, N. E.
Bolton, Meade, Arch.....	D. C.	..506 Iroquois Apt.
Bond, Lewis Franklin, Eng.c.....	Ill.	..1206 Columbia Road.
Booth, Frank W., C.C.....	Iowa	..1525 35th Street.
Botkin, Alice Sinclair, Ed.....	D. C.	..The Burlington.
Boutell, Hugh Gates, C.C.....	Ill.	..The Highlands.
Bowen, Mortimer, C.C.....	Va.	..1025 22d Street.
Bowen, Seth Thomas, Eng.....	Ohio	..1448 Rhode Island Ave.
Bowker, Charles H., C.C.....	D. C.	..1310 Vermont Avenue.



Name.	Legal residence.	City address.
Brackett, Corinne Elizabeth, C.C....	D. C.	..1464 Girard Street.
Braddock, George Harrison, Eng.e....	Md.	...The Victoria.
Bradshaw, May Paul, Ed.....	D. C.	..901 C Street, N. E.
Brakhagen, Minnie Hulda, C.C.....	D. C.	..905 7th Street.
Brame, Arthur Hervey, Eng.e.....	D. C.	..1317 10th Street.
Brandt, Milton W., Eng.e.....	Ohio	..1634 15th Street.
Brashears, Irma, C.C.....	D. C.	..1230 Euclid Street.
Breen, Mary Cecilia, C.C.....	D. C.	..1357 U Street.
Bridge, Emily Louise, Ed.....	Mass.	..Maple Street, Takoma Park, Md.
Briggs, Victoria, Ed.....	N. Y.	..33 The Brunswick.
Britton, Carrie Evelyn, C.C.....	Pa.	...311 C Street.
Brock, Ruth Elizabeth, Ed.....	D. C.	..940 K Street.
Brock, Thomas S., Eng.....	D. C.	..1430 W Street.
Brodie, Ralph, Arch.....	D. C.	..609 Florida Ave.
Brooks, Courtland, C.C.....	D. C.	..1634 15th Street.
Brown, Elizabeth Virginia, Ed.....	Mo.	...1357 Euclid Street.
Brown, Helen Maria, Ed.....	N. Y.	..1309 17th Street.
Brown, Mary, Ed.....	D. C.	..2464 Ontario Road.
Browning, Anna Melrose, C.C.....	D. C.	..3212 Newark Street, Cleveland Park.
Bruder, William Edward, C.C.....	Ohio	..2211 I Street.
Buckingham, Nevell, Arch.....	D. C.	..134 C Street, N. E.
Buckler, Albert, Eng.....	Pa.	...16 3d Street, S. E.
Bullough, George Van Ness, C.C....	D. C.	..122 Tenn. Ave., N. E.
Bundick, Harriet Ellen, Ed.....	Va.	...716 12th Street.
Burchard, Edwin Day, Eng.e.....	D. C.	..1113 S Street.
Burden, Katherine, C.C.....	D. C.	..The Franklin.
Burke, Arthur, Ed.....	D. C.	..2114 O Street.
Burklin, Robert Reyburn, C.C.....	D. C.	..1131 Girard Street.
Burnett, Lyle B., C.C.....	Mo.	...1713 G Street.
Burnett, Roy Edgar, C.C.....	D. C.	..1307 R Street.
Burrell, William W., Eng.m.....	Pa.	...2129 Pennsylvania Ave.
Butler, Charles Marshall, C.C.....	D. C.	..1535 I Street.
Butman, Carl Hawes, Eng.m.....	Mass.	..1700 15th Street.
Cain, John Rice, C.C.....	D. C.	..1237 Kenyon Street.
Call, Loren Heinlein, Eng.e.....	D. C.	..1448 Newton Street.
Calvert, Landon Ralls, Eng.....	Va.	...1804 G Street.
Cameron, Myrle, C.C.....	D. C.	..16th and Emerson Sts.
Campbell, Harry Hamilton, Eng.e....	D. C.	..1723 G Street.
Campbell, James Lawrence, Jr., Arch.	Va.	...1977 Biltmore Street.
Campbell, W. Ray, Arch.....	N. J.	...1120 13th Street.
Campbell, Worthington Clarke, Eng.e.	Md.	...1750 Euclid Street.

Name.	Legal residence.	City address.
Card, George Franklin, Eng.....	Mo. ....	3043 P Street.
Carpenter, Essex Porter, Eng.e.....	D. C. ....	1921 G Street.
Carpenter, Lillian Evans, Ed.....	D. C. ....	205 D Street, N. E.
Carraher, Margaret Mary, Ed.....	D. C. ....	504 6th Street, S. W.
Carraher, Rose Gertrude, Ed.....	D. C. ....	504 6th Street, S. W.
Carty, Roy F., Eng.m.....	D. C. ....	Bureau of Standards.
Cash, Edith Katherine, C.C.....	D. C. ....	126 Tenn. Ave., N. E.
Cash, Lilian Claire, C.C.....	D. C. ....	126 Tenn. Ave., N. E.
Cash, W. Bogart, Arch.....	N. C. ....	2516 17th Street.
Chadwick, George Albert, Eng.....	N. J. ....	623 So. Fairfax Street, Alexandria, Va.
Chambers, Charles Edwin, Eng.e....	N. Y. ....	1360 B Street, S. E.
Charlton, Mrs. Paul, Ed.....	D. C. ....	1712 H Street.
Charlton, Robert, C.C.....	D. C. ....	1712 H Street.
Cheshire, Lillie Alice, C.C.....	D. C. ....	125 11th Street, S. E.
Chubb, Herman Blaney, C.C.....	D. C. ....	The Mendota.
Church, Christine Merrick, C.C.....	D. C. ....	626 N. C. Ave., S. E.
Clagett, Henry Noble, Eng.....	Md. ....	1748 S Street.
Clark, Bennett Champ, C.C.....	Mo. ....	The Toronto.
Clark, Frank R., Eng.....	Utah ....	36, Imperial Apt.
Clark, Henry Culbertson, C.C.....	D. C. ....	Takoma Park, D. C.
Clift, Linda Lee, C.C.....	D. C. ....	163 U Street.
Clyne, J. V., Eng.....	Ill. ....	909 13th Street.
Coburn, Walter DeMeritt, C.C.....	D. C. ....	720 22d Street.
Coburn, William Turley, Eng.....	D. C. ....	2959 Tilden Street.
Cochran, Ruth Gilbert, C.C.....	Colo. ....	1748 Corcoran Street.
Cochrane, John Edw. Walker, Eng.c.D. C. ....	D. C. ....	1416 K Street.
Cockrell, Henry Ewing, C.C.....	Mo. ....	1518 R Street.
Cockrell, Selwyn Kennedy, C.C.....	D. C. ....	216 11th Street.
Coe, Mayne Reid, C.C.....	N. C. ....	Langdon, D. C.
Coleman, Thomas Carlisle, Eng.....	D. C. ....	The Westover.
Collins, Joseph Francis, Ed.....	D. C. ....	2049 9th Street.
Compton, Edith Lee, Ed.....	D. C. ....	1121 Euclid Street.
Conboye, William T., Eng.c.....	D. C. ....	311 M Street.
Connelly, Mary, Ed.....	D. C. ....	1438 S Street.
Connor, Daniel Allman, Eng.c.....	D. C. ....	130 D Street, S. E.
Connor, Louis George, C.C.....	D. C. ....	626 L Street, N. E.
Conwell, Rollin Nichol, Eng.e.....	Ind. ....	1302 Columbia Road.
Cooke, May Thacher, C.C.....	Colo. ....	1328 12th Street.
Coolidge, Helen Moody, Ed.....	D. C. ....	1419 R Street.
Corson, Edna Lois, C.C.....	D. C. ....	1154 17th Street.
Covell, David Ransom, C.C.....	N. Y. ....	3221 11th Street.
Craig, Harold Kennedy, Eng.c.....	D. C. ....	2206 1st Street.



Name.	Legal residence.	City address.
Craig, Marion Edith, C.C.....	Va. ....	2206 1st Street.
Craighill, Susan Robins, Ed.....	Va. ....	3062 Q Street.
Cranston, Claudia, C.C.....	Texas ..	1467 Irving Street.
Crockett, Joseph A., Eng.m.....	D. C. ..	208 11th Street, N. E.
Croswell, Nannie B., Ed.....	D. C. ..	1327 Mass. Ave., S. E.
Crowe, John Joseph, C.C.....	D. C. ..	Bladensburg Road.
Crown, James Edmond, C.C.....	D. C. ..	221 10th Street, S. E.
Cummins, Albert Forest, C.C.....	Pa. ....	221 11th Street, S. E.
Curl, Joseph Ryland, C.C.....	D. C. ..	2312 I Street.
Curran, William J. F., C.C.....	D. C. ..	305 1st Street, S. E.
Curtis, Myron Seaton, Eng.m.....	Md. ....	Chevy Chase, Md.
Cushing, Harriet Morrill, C.C.....	D. C. ..	1333 N Street.
Dague, Roswell, C.C.....	Wash. ..	930 18th Street.
Dahn, Franz F. W., C.C.....	Minn. ..	1515 O Street.
Daniels, Ara Marcus, Eng.e.....	D. C. ..	The Portner.
Dans, José P., Eng.....	P. I. ...	Coast & Geodetic Survey.
Davidson, William Falconer, Eng.e..	N. C. ..	1226 Evarts Street, N. E.
Davies, Joseph Alfred, C.C.....	Ind. ....	1528 Rosedale St., N. E.
Davies, Robert Gardner, Eng.m....	D. C. ..	1004 N. C. Ave., S. E.
Davis, Adelaide, Ed.....	Mass. ..	213 C Street, S. E.
Davis, Estelle Hance, Ed.....	Va. ....	403 B Street, N. E.
Davis, Rena Preston, C.C.....	D. C. ..	2212 1st Street.
Deacon, Ralph D., C.C.....	S. D. ..	1719 G Street.
Dean, Mary Owen, Ed.....	D. C. ..	1507 Park Road.
B.A., Woman's College, Baltimore, Md.		
Deland, Eugenie, Ed.....	D. C. ..	507 T Street.
Denham, Ruth Milicent, C.C.....	D. C. ..	Manor House.
Denning, William Ira, C.C.....	Ga. ....	The Loretto.
DeRiemer, Arthur Hyde, Eng.....	Ill. ....	1461 Chapin Street.
Deyo, Clarence Eugene, C.C.....	Conn. ..	Treasury Department.
Dick, George Wesley, Eng.....	D. C. ..	322 8th Street, N. E.
Dilger, Eric, C.C.....	Va. ....	Cor. 26th, D St., and Water St.
Dodge, Edna May, Ed.....	D. C. ..	610 F Street, N. E.
Doing, Jennie E., C.C.....	D. C. ..	1311 K Street.
Dolbey, Frank Crofutt, Eng.....	D. C. ..	740 13th Street, S. E.
Donk, Marion Gilbert, Eng.e.....	Fla. ....	35, The Brunswick.
Donk, Peter, Ed.....	Fla. ....	35, The Brunswick.
Donovan, Frances Helen, C.C.....	D. C. ..	1677 31st Street.
Doran, Helen Fay, C.C.....	D. C. ..	2129 L Street.
Dortch, Mary Harris, C.C.....	Tenn. ..	1510 Park Road.
Dougherty, Howard Francis, Eng.e..	Md. ....	824 13th Street.
Douglas, Willard Raymond, Eng....	D. C. ..	Nat'l Elec. Supply Co.

Name.	Legal residence.	City address.
Duvall, Mary Morsell, Ed.....	D. C.	..1831 M Street.
Doyle, Burton Jarvis, Arch.....	D. C.	..632 C Street, N. E.
Draper, Henry White, Ed.....	D. C.	..1303 Fairmont Street.
LL.B., 1903, LL.M., 1904, National University.		
Dugan, John A., Eng.m.....	D. C.	..3419 Dent Place.
Dugan, Rose Ann, Ed.....	D. C.	..1321 Corcoran Street.
Dulin, Wm. Shelton Gordon, Eng.c..	D. C.	..1420 Pennsylvania Ave.
Dunbar, Ralph McNeal, C.C.....	Md.	....Y. M. C. A.
Dwyer, John Rockford, Eng.c.....	D. C.	..628 F Street, S. W.
Dyson, Arnold Horton, Eng.c.....	R. I.	...3008½ R Street.
Earl, Merritt, C.C.....	Wis.	...Bu. of Indian Affairs.
Earll, Donald Montgomery, C.C....	Md.	....Chevy Chase, Md.
Easterday, George Winship, Eng.e..	D. C.	..1681 31st Street.
Eatherly, Walter Scott, C.C.....	Tenn.	..1002 K Street.
Eaton, Ernest Risley, C.C.....	Australia	Y. M. C. A.
Ebbetts, Warner Addison, Arch.....	Conn.	..811 13th Street.
Ebeling, A. H., Arch.....	N. Y.	..U. S. Naval Med. School Hospital.
Eberly, C. F., C.C.....	Ohio	..1733 19th Street.
Eckstein, Josephine E., C.C.....	D. C.	..3361 18th Street.
Edelen, George S., C.C.....	Md.	....The Coywood.
Edwards, Carleton Ula, Eng.....	Ark.	..1701 Adams Street, N. E.
Eisenberg, Arthur Alexander, C.C..	Russia	..1213 4½ Street, S. W.
Ellis, Harry Van Horn, C.C.....	D. C.	..203 C Street, N. E.
Ellis, Ralph Thomas, C.C.....	Del.	....Y. M. C. A. Bldg.
Elwood, William Adams, Eng.c.....	D. C.	..635 F Street, N. E.
Emerich, Irma, Ed.....	D. C.	..1847 Calvert Street.
Engel, Morris Edward, Eng.m.....	Pa.	....1016 S. C. Ave., S. E.
England, Howard H., C.C.....	D. C.	..5702 Brightwood Ave.
Engle, Claude Hanke, Ed.....	D. C.	..603 Mass. Ave., N. E.
English, Annie, C.C.....	D. C.	..1215 N Street.
Estler, Harry Smith, Eng.m.....	Va.	....1245 31st Street.
Estey, Kate M., Ed.....	D. C.	..2504 Cliffbourne Pl.
Ettenger, Anne Lee, C.C.....	Ind.	..1507 Lamont Street.
Everett, Frank Orear, C.C.....	Mo.	...916 14th Street.
Fant, Jessie DuBois, Ed.....	Idaho	..115 12th Street, S. E.
Farnham, Arthur Blanchard, Eng.c..	D. C.	..1733 R Street.
Farrington, Charlotte R., C.C.....	Minn.	..3014 Dent Place.
Farwell, Clarence Gilbert, C.C.....	Mass.	..2217 Pennsylvania Ave.
Fehr, J. Ralph, Eng.e.....	Ill.	....Patent Office.
Fendley, Joseph Martin, C.C.....	Ga.	....2218 Pennsylvania Ave.
Finch, Elmer Harrison, Eng.c.....	Mich.	..1211 Q Street.
Finckel, William Henry, Jr., Eng.m.	D. C.	..1625 S Street.



Name.	Legal residence.	City address.
Firmin, John Clingan, Arch.....	D. C. ..	1438 Harvard Street.
Fisher, Dwight Wilton, C.C.....	D. C. ..	1921 G Street.
Fitch, Theodore Allen, C.C.....	D. C. ..	3126 16th Street.
Fitch, William Reed, C.C.....	N. D. ..	2003 G Street.
Fitzsimons, Ellen White, C.C.....	Ala. ....	1412 Massachusetts Ave.
Fleming, John Paton, C.C.....	D. C. ..	1847 Wyoming Ave.
Fleming, W. H. Irwin, Arch.....	Va. ....	1847 Wyoming Ave.
B.S. in Arch., 1906, The George Washington University.		
Forbes, Annie Lewis, Ed.....	Ky. ....	1538 I Street.
Ford, Helen, Ed.....	D. C. ..	The Mendota.
Forfar, Adelina Wright, Ed.....	Wis. ....	1326 Euclid Street.
Foster, Carrington, Arch.....	Va. ....	1323 Q Street.
Foster, Ethel E., Ed.....	D. C. ..	19 Iowa Circle.
Foster, Esther, C.C.....	D. C. ..	119 W Street.
Foster, Ruth, C.C.....	D. C. ..	119 W Street.
Fowler, Ruth, Ed.....	Ind. ....	1834 Euclid Street.
Frank, Mary Woods, C.C.....	D. C. ..	1003 Otis Place.
Freeman, Alice L., Ed.....	S. C. ..	1831 V Street, S. E.
Freeman, Leroy A., Eng.....	D. C. ..	46 V Street.
Freeman, Louis George, Eng.e.....	D. C. ..	1700 Columbia Road.
Frey, Ralph Wylie, C.C.....	D. C. ..	1343 Q Street.
Frick, George Frederick, Eng.....	Pa. ....	1838 4th Street.
Fuerst, George M., Arch.....	Wis. ....	1827 H Street.
Fuchs, Henry, Eng.e.....	Mo. ....	11½ Grant Place.
Fuller, Aubrey Vail, C.C.....	D. C. ..	2318 1st Street.
Fulmer, Howard D., Arch.....	Pa. ....	1813 16th Street.
Galiher, Blanche Pauline, Ed.....	Ill. ....	436 6th Street, N. E.
Gannett, Eleanor, C.C.....	D. C. ..	2556 University Place.
Gardner, Helen B., Ed.....	D. C. ..	623 East Capitol Street.
Garnett, Henry Wise, C.C.....	D. C. ..	1409 Hopkins Place.
Garland, Alexander, Jr., Arch.....	Peru ...	334 Indiana Ave.
Gary, Howland R., Eng.m.....	Va. ....	R. F. D. No. 2, Alexandria, Va.
Geare, Reginald W., Arch.....	D. C. ..	10th and Otis Streets.
Geschickter, Jeanette, C.C.....	D. C. ..	1239 12th Street.
Gibbons, Jessie Ercell, C.C.....	D. C. ..	1314 N. C. Ave., N. E.
Gill, Wilbur D., Eng.e.....	D. C. ..	1925 Calvert Street.
Gilliss, Helen, Ed.....	Va. ....	1307 Kenyon Street.
Given, Mary Ella, Ed.....	D. C. ..	The Olympia.
Glass, Edward L. N., C.C.....	N. J. ..	1733 P Street.
Goding, Anne M., Ed.....	D. C. ..	1419 Rhode Island Ave.
Godoy, George, Arch.....	Calif. ..	1006 16th Street.

Name.	Legal residence.	City address.
Goicouria, Pedro P., C.C.....	P. R. ..	Cor. 25th and E Streets.
Goodrich, Queenie Anna, C.C.....	Ill. ....	1538 I Street.
Gover, William Thornton, Ed.....	Va. ....	Manassas, Va.
Grady, Ryan Armistead, C.C.....	D. C. ..	1521 29th Street.
Graff, Leva Burton, C.C.....	Ill. ....	Dewey Hotel.
Graham, Claudia VanNette, Ed.....	D. C. ..	1125 6th Street.
Graham, George Vernon, C.C.....	D. C. ..	3552 10th Street.
Graham, Jerome Montrose, Arch.....	D. C. ..	1407 16th Street.
Graham, Jeannie True, Ed.....	Ky. ....	1538 I Street.
Green, Elsie Eugenia, C.C.....	D. C. ..	600 23d Street.
Greenburg, Louis, Arch.....	D. C. ..	612 N Street.
Greenwood, Mary Maud, Ed.....	D. C. ..	1360 Columbia Road.
Griffin, Harry Kemp, C.C.....	Ill. ....	Bureau of Standards.
Gudmunsen, Isaac Ray, C.C.....	Idaho ..	520 F Street, N. E.
Gwinn, Thomas Ross, Eng.e.....	Md. ....	1645 K Street.
Hackett, William T., Eng.c.....	D. C. ..	1129 Fairmont Street.
Haddaway, S. K., Eng.....	Pa. ....	715 A Street, S. E.
Haller, Thomas Edward, Arch.....	D. C. ..	447 Lamont Street.
Halsey, Arthur Sherman, Eng.....	Pa. ....	207 East Capitol Street.
Hamilton, Charles Burwell, Eng.m.....	D. C. ..	1032 Lamont Street.
Hamilton, Walter Clarence, Eng....	D. C. ..	406 6th Street, S. E.
Hansen, Otto W., Eng.c.....	Ill. ....	1808 H Street.
Hardester, John S., Eng.....	D. C. ..	Congress Heights, D. C.
Hardy, Margaret Bourde, Ed.....	Va. ....	638 E. Capitol Street.
Harrison, Hattie, C.C.....	Va. ....	3100 R Street.
Harrison, Robert Horace, Eng.c....	D. C. ..	2208 1st Street.
Hart, Charles, Ed.....	D. C. ..	515 B Street, N. E.
Hart, Raymond Sager, Arch.....	D. C. ..	1536 6th Street.
Hart, William Lee, C.C.....	S. C. ..	Washington Barracks.
M.D., 1906, University of Maryland.		
Hartman, Joseph Vance, C.C.....	Ind. ....	226 11th Street.
Hartmann, Wilhelmine Cornelia, C.C.D. C. ..		The Berkshire.
Haslup, Alice Elma, Ed.....	D. C. ..	2114 18th Street.
Hatch, Jeanne M., Ed.....	N. J. ..	The Mendota.
Hathaway, Lillie Theresa, C.C.....	Ohio ...	Treasury Department.
Hauser, Edna Emma, C.C.....	D. C. ..	1729 1st Street.
Hawkins, Margaret, Ed.....	Md. ....	2313 Washington Circle.
Haycock, Robert Lee, Ed.....	D. C. ..	Industrial Home School.
Hayden, Elizabeth Anne, Ed.....	N. Y. ..	1408 Belmont Street.
Hayton, Charles Henry, C.C.....	So. Afr.	Takoma Park, D. C.
Hazard, Samuel Tilden, Eng.c.....	D. C. ..	1004 B Street, S. E.
Heald, Lenore, C.C.....	D. C. ..	Takoma Park, D. C.
Heilprin, Marion, C.C.....	D. C. ..	2620 University Place.



Name.	Legal residence.	City address.
Heitmuller, George Roeder, C.C....	D. C. ..	1307 14th Street.
Henderson, John Wagner, C.C.....	Md. ....	1819 Kalorama Road.
Hendley, Flora L., Ed.....	D. C. ..	1216 L Street.
Hendry, M. Leland, C.C.....	Md. ....	Bethesda, Md.
Herndon, John Goodwin, Jr., C.C...	Ala. ...	1305 P Street.
Herndon, Neal N., Eng.....	Ala. ...	1515 Vermont Ave.
Hess, Eva, C.C.....	D. C. ..	1221 Newton St., N. E., Brookland, D. C.
Hession, John H., Eng.c.....	Mass. ..	1419 W Street.
Hiatt, Mabel Brown, C.C.....	Iowa ...	1414 Hopkins Street.
Higginbotham, Richard Frank, C.C..	Ind. ...	House of Rep.
Hill, Elsie Mary, C.C.....	Conn. ..	The Burlington. A.B., 1906, Vassar College.
Hill, Florence A., C.C.....	D. C. ..	933 Westminster Street.
Hill, Walter Ormsby, C.C.....	Mo. ....	1006 B Street, S. W.
Hilleary, Mary Beatrice, Ed.....	D. C. ..	3314 P Street.
Hobson, Frank Millard, Eng.e.....	Va. ....	2013 G Street.
Hoffman, Edwin S., Eng.e.....	Pa. ....	523 B Street, N. E.
Holcombe, William Henry, Eng.c...	Ind. ...	1829 Corcoran Street.
Holden, John Greene, Eng.c.....	Md. ....	Amer. Sec. & Trust Co.
Holland, Adrian C., Eng.e.....	Texas ..	1528 1st Street.
Holmes, Mrs. Kate Osgood, Ed.....	D. C. ..	1444 Belmont Street.
Holmes, Osgood, Arch.....	D. C. ..	1444 Belmont Street.
Holmes, Phoebe, Ed.....	D. C. ..	2307 18th Street.
Holmes, Rexford Louie, C.C.....	Ill. ....	1114 D Street, N. E. LL.B., 1908, The George Washington University.
Holmes, Ronald M., C.C.....	D. C. ..	726 3d Street, N. E.
Honn, Harlan Verne, Eng.e.....	D. C. ..	400 8th Street, N. E.
Honsberg, Emil Ernest, Eng.....	Ohio ...	1103 17th Street.
Hooton, Philip Rogers, Arch.....	D. C. ..	1005 Mass. Ave., N. E.
Hoover, Joseph Raymond, C.C.....	D. C. ..	1118 9th Street.
Hopkins, Edwin B., C.C.....	D. C. ..	The Rockingham.
Horgan, Francis Vincent, Eng.c...	D. C. ..	733 13th Street.
Hornung, Elmer Engelken, Arch....	Iowa ...	1313 K Street.
Horstman, William Henry, Arch....	Mo. ....	418 6th Street.
Hough, Edgar Joseph, Eng.m.....	D. C. ..	1515 O Street.
Hough, Roland P., Eng.e.....	Va. ....	Ballston, Va.
Howard, Frank A., Eng.m.....	D. C. ..	1800 S Street.
Howard, Mary, C.C.....	Neb. ...	16 R. I. Ave., N. E.
Howell, Ralph William, C.C.....	D. C. ..	612 17th Street.
Hoyme, G. L., Arch.....	Va. ....	53 U Street.
Hronik, Joseph, C.C.....	Iowa ...	823 21st Street.
Huff, Carrie, C.C.....	Miss. ..	1702 F Street.

Name.	Legal residence.	City address.
Hughes, William G., Eng.m.....	D. C.	..The Eutaw Apt.
Hummer, Elizabeth Alice, C.C.....	D. C.	..638 East Capitol Street.
Hunter, Annie Rachel, C.C.....	D. C.	..1211 34th Street.
Hunter, Gertrude, Ed.....	D. C.	..1445 Massachusetts Ave.
Huntting, Horace Parsons, Eng.m..	N. Y.	..The Alabama, Apt. 207.
Hurley, John J., Jr., Eng.c.....	D. C.	..60 K Street.
Ingersoll, Edwin Henry, C.C.....	D. C.	..Bu. Animal Industry.
Irby, Robert Garland, C.C.....	D. C.	..1348 Euclid Street.
Jackson, Maude L., C.C.....	D. C.	..3630 13th Street.
Jacobs, Benjamin Richard, C.C.....	Calif.	..Bureau of Chemistry.
Jeffrey, Frank Rumer, C.C.....	Wash.	..823 21st Street.
Jenkins, Oliver Lloyd, Eng.m.....	Ind.	..718 N. C. Ave., S. E.
Johnson, Charles Albert, Ed.....	D. C.	..2011 S Street.
Johnson, Ross Holbrook, C.C.....	D. C.	..1804 Belmont Road.
Johnson, Mrs. Sara Pierson, Ed....	Va.	..4107 Connecticut Ave.
Johnston, Mildred Floyd, Ed.....	D. C.	..1762 N Street.
Jones, Cyrus Alexander, C.C.....	Ill.	..Chevy Chase, Md.
Jones, Eleanor Isabelle, C.C.....	Ohio	..426 Luray Place.
Jones, Mary Glenn, Arch.....	Va.	..1527 I Street.
Jones, Robert Pepin, C.C.....	Mass.	..301 Md. Ave., N. E.
Justement, Louis Henri E., Arch....	N. Y.	..914 L Street.
Kalb, Dorothy Buhrman, Ed.....	D. C.	..1535 T Street.
Keathley, Lillie V., C.C.....	N. C.	..The Concord.
Keats, Harold, C.C.....	D. C.	..1806 S Street.
Keeton, Daniel M., C.C.....	Texas	..2437 N Street.
Kelley, Mark M., C.C.....	Calif.	..1110 L Street.
Kengla, Herbert Lorenza, Eng.c....	D. C.	..2924 Wisconsin Ave.
Kennedy, Charles Bayard, Eng.e....	D. C.	..1304 13th Street.
Kennedy, John Thomas, C.C.....	Pa.	..Y. M. C. A. Bldg.
Kerlin, John G., C.C.....	N. J.	..933 H Street.
King, Winifred Mary, C.C.....	D. C.	..1803 14th Street.
Kinsell, Rex Emir, C.C.....	Iowa	..1335 Mass. Ave., S. E.
Klee, Charles Raymond, Arch.....	N. Y.	..3224 R Street.
Knowles, William Alexander, Arch..	D. C.	..U. S. Nat'l Museum.
Kramer, Frank Henry, Eng.....	D. C.	..506 3d Street, S. E.
Kuan, Ching-lin, C.C.....	China	..2001 19th Street.
Lamb, James Ewing, Ed.....	Md.	..1322 I Street.
Lane, Marian Ursula, Ed.....	Eng.	..1126 Connecticut Ave.
Lasley, Dana McGuffey, Eng.m.....	D. C.	..The Albemarle.
Latimer, Philip Averitt, Eng.c....	D. C.	..226 12th Street, S. E.
Lattleslund, Hilda M., Ed.....	N. D.	..1223 Vermont Ave.
Lawrence, Glenn Rupert, Eng.c.....	D. C.	..3425 14th Street, Brookland, D. C.



Name.	Legal residence.	City address.
Lawson, Margaret Lucile, Ed.....	N. C.	..815 C Street, N. E.
Lazard, Henry, Ed.....	France	..1341 L Street.
Leaman, Melvin G., C.C.....	Md.	....Chevy Chase, Md.
Lee, Ralph Everett, C.C.....	Mass.	..320 6th Street, N. E.
Leonard, William Michael, Eng.c....	D. C.	..520 G Street, N. E.
Lepper, Henry Albert, C.C.....	D. C.	..1620 6th Street.
Liebschutz, Eugenie, Ed.....	France	..1527 Newton Street.
Lind, John Edward, C.C.....	Iowa	..506 A Street, N. E.
Lindsay, Alfred Briscoe, C.C.....	D. C.	..1809 18th Street.
Litchfield, Henry Edward, Eng.....	D. C.	..1240 Half Street, S. E.
Little, Agnes Inch, Ed.....	D. C.	..332 Md. Ave., N. E.
Little, May K., C.C.....	Ga.	....131 A Street, N. E.
Littlejohn, Howard Irwin, C.C.....	Nebr.	..607 4th Street.
Littell, Mabel Shaw, C.C.....	D. C.	..The Baltimore.
Longley, Clifford B., C.C.....	Ill.	....The Sterling.
Lord, Kenneth Prince, C.C.....	D. C.	..The Concord.
Lovering, George Varnum, C.C.....	Mass.	..Interstate Commerce Commission.
Lowe, Edith, C.C.....	D. C.	..2622 Woodley Place.
Lower, John Haworth, Eng.....	N. Y.	..The Marlborough.
Lucas, Anthony Fitzgerald, Jr., Eng.	D. C.	..1406 16th Street.
Lucas, Leah Roberta, C.C.....	D. C.	..1612 1st Street.
Luers, George Arthur, Eng.....	Md.	....The Cumberland.
Lusby, Charles Edward, C.C.....	D. C.	..2909 O Street.
Lynch, Laura Virginia, C.C.....	D. C.	..128 East Capitol Street.
McAuley, Hugh Nesbit, Arch.....	D. C.	..530 21st Street.
McCalip, Curtis Edgar, Eng.m.....	Ind.	....The Lincoln, Apt. 17.
McCarthy, Charles Henry, C.C.....	D. C.	..702 19th Street.
McCarthy, Joseph Henry, Eng.....	D. C.	..609 2d Street.
McColm, Anna May, Ed.....	Iowa	..The Olympia.
McConnell, Harry Raymond, Eng.m.	Va.	....601 N. C. Ave., S. E.
McDermott, Frank Alexander, C.C.	D. C.	..25th and E Streets.
McGovern, Francis J., C.C.....	R. I.	..702 19th Street.
McGraw, Fred M., C.C.....	N. Y.	..Takoma Park, Md.
McGuffey, Margaret Drake, Ed.....	D. C.	..926 17th Street.
McKee, Mabel Park, Ed.....	D. C.	..615 Md. Ave., N. E.
McKnight, Nannie J., Ed.....	Ohio	....3037 Dumbarton Ave.
McLean, Harry Clay, Jr., C.C.....	D. C.	..1373 Irving Street.
McLear, Alice Bush, Ed.....	Del.	....1307 W. 13th Street, Wilmington, Del.
McPike, Martin John, Eng.c.....	Pa.	....812 1st Street.
Malnati, Antoinette, Ed.....	D. C.	..712 East Capitol Street.
Manning, Thomas R., Eng.c.....	Pa.	....26 2d Street, N. E.

Name.	Legal residence.	City address.
Manville, Loren Robert, Eng.c.....	S. D. ....	1515 O Street.
Marcus, Mandel, C.C.....	Ill. ....	224 Indiana Ave.
Maret, Jeanne, Ed.....	Switzerland.	1719 13th Street.
Marr, Anna, C.C.....	D. C. ....	1818 S Street.
Marsh, Allen Johnson, C.C.....	D. C. ....	McKinley Manual Training School.
Marsh, Mrs. Charlotte Evans, Ed....	Md. ....	324 Indiana Ave.
Marsh, Charles Wilder, C.C.....	D. C. ....	3430 Brown Street.
Martin, James Luther, C.C.....	Md. ....	Baltimore, Md.
Marvin, Francis Edwin, Eng.e.....	D. C. ....	606 F Street, N. E.
Maryan, William Sturdivant, C.C....	Va. ....	1135 12th Street.
Marye, Tench Tilghman, C.C.....	D. C. ....	1526 20th Street.
Mason, Josephine Dwight, Ed.....	Mass. ....	132 A Street, N. E.
Masters, Lilla V., Ed.....	D. C. ....	2055 Wisconsin Ave. A.B., Wellesley College.
Mattingly, Gentry Heard, Eng.e....	D. C. ....	475 F Street, S. W.
Maurer, Ruth Walden, Ed.....	Ohio ....	The Nelson.
Mayne, John Clarke, C.C.....	D. C. ....	4201 Brightwood Ave.
Maxcy, Kenneth Fuller, C.C.....	D. C. ....	1118 Rhode Island Ave.
Megee, Mary Lena, Ed.....	Texas ..	Grant Road.
Meyer, Will Beck, C.C.....	D. C. ....	609 P Street.
Middleton, Arthur Pierce, C.C.....	D. C. ....	1228 Fairmont Street.
Miller, Clarence William, Eng.e....	Ind. ....	821 11th Street.
Miller, Dayton Baird, C.C.....	D. C. ....	15 Quincy Place.
Millington, Yale O., C.C.....	D. C. ....	1009 Newton St., N. E.
Moneyway, James Lewis, C.C.....	Ala. ....	1454 Fairmont Street.
Monk, Ella May, Ed.....	N. Y. ....	1812 G Street.
Monroe, Edgar Hewitson, Eng.....	D. C. ....	901 Virginia Ave., S. W.
Moody, Theodore Lyman, Eng.c....	Md. ....	1512 P Street.
Moore, Frances DuBois, Arch.....	N. Y. ....	Public Library.
Moore, Kate Carroll, Ed.....	D. C. ....	224 15th Street.
Moore, Lee Varick, C.C.....	N. C. ....	1219 Q Street.
Moore, Susanne A., Ed.....	D. C. ....	1308 Girard Street.
Morgan, M. Ella, Ed.....	D. C. ....	2750 14th Street.
Morton, Carrie L., C.C.....	D. C. ....	200 A Street, S. E.
Muncey, Eliot May, C.C.....	D. C. ....	1337 R Street.
Munroe, Dorothy Barker, Ed.....	R. I. ....	2115 S Street.
Myers, Charles Claude, C.C.....	D. C. ....	1804 14th Street.
Myers, Henry Bernard, Eng.e.....	Md. ....	1412 Columbia Street.
Myers, John D., C.C.....	D. C. ....	The Vermont.
Newbold, Katharine Mitchell, C.C..	D. C. ....	1362 Kenyon Street.
Newhouser, Roy Lyman J., C.C....	Pa. ....	217 East Capitol Street.
Newton, Grace Gadsdon, Ed.....	D. C. ....	1452 Fairmont Street.



Name.	Legal residence.	City address.
Newton, Margaret, Ed.....	D. C. ....	1625 R Street.
Nicholson, Helen Sellman, C.C.....	D. C. ....	2821 Q Street.
Nicholson, Percival H., Eng.....	Md. ....	Bureau of Education.
Nickerson, Chester Arthur, C.C....	Wis. ....	1739 F Street.
Nickel, William Frederick, Eng.e....	Md. ....	1333 12th Street.
Nicolson, Geo. Dudley Gordon, Eng. Va. ....	Navy Dept., Bu. Con. & Rep.	
Nielsen, Joseph Nicolay, Arch.....	Minn. ....	1615 Florida Ave.
Nin-Frias, Helena, C.C.....	Uruguay.	1410 21st Street.
Nutt, George Sinclair, C.C.....	Ill. ....	617 C Street, N. E.
Oehmann, John William, Eng.....	D. C. ....	507 Stanton Place, N. E.
Olesen, Walter Alexis, Eng.e.....	Minn. ....	644 E Street, N. E.
Olmstead, Mary Pauline, C.C.....	Minn. ....	130 East Capitol Street.
Ord, Gladys Anne, C.C.....	Md. ....	Chevy Chase, Md.
O'Rourke, John, Arch.....	D. C. ....	Station A, 2472.
Ortiz, Miguel, Eng.e.....	Mexico	1002 M Street.
Osgood, Rose Cornelia, C.C.....	N. Y. ....	The Victoria.
Osterhout, Karl Jackson, C.C.....	Pa. ....	613 C Street, S. E.
Outwater, Mrs. Kate Sorrell, Ed....	Va. ....	620 F Street, S. W.
Owens, Norris Wilbur, Ed.....	Md. ....	315 R Street.
Palmer, Elizabeth D., Ed.....	Conn. ....	1331 Fairmont Street.
Padgett, Harold Dement, Eng.e....	Md. ....	816 18th Street.
Panopio, Eliseo M., Eng.....	P. I. ....	Coast & Geod. Survey.
Pardee, Elmer Witmer, Eng.e.....	N. Y. ....	916 19th Street.
Parkhurst, Benjamin, C.C.....	D. C. ....	1135 12th Street.
Parry, William, Eng.e.....	Pa. ....	1328 New York Ave.
Parsons, Beulah Elizabeth, Ed.....	D. C. ....	1229 15th Street.
Patchell, Fred James, C.C.....	D. C. ....	357 N Street, S. W.
Patterson, Ruth Capelle, Ed.....	D. C. ....	2016 15th Street.
Patterson, Russell Brown, Eng.e....	D. C. ....	2016 15th Street.
Peck, Caro B., Eng.....	D. C. ....	603 Howard Place.
Perry, Mabel, Ed.....	Conn. ....	1758 Q Street.
Pellett, Mirl Edison, C.C.....	D. C. ....	2120 H Street.
Pepper, Nora Rose, C.C.....	D. C. ....	1743 U Street.
Phillips, Marguerite, Ed.....	D. C. ....	1705 21st Street.
Pierce, James Francis, Eng.e.....	Mich. ....	1243 5th Street.
Pierce, Ulysses G. B., C.C.....	D. C. ....	1616 Riggs Place.
B.D., 1890, Hillsdale College.		
Pimper, Cora H., Ed.....	D. C. ....	1302 30th Street.
Pipes, Walter Logan, Eng.m.....	D. C. ....	916 F Street.
Plass, Joseph, C.C.....	Germany.	223 H Street.
Pole, Samuel B., C.C.....	D. C. ....	216 8th Street, N. E.
Poole, George, Eng.m.....	D. C. ....	903 E Street, S. E.

Name.	Legal residence.	City address.
Porter, Irwin, Arch.....	D. C.	..3225 11th Street.
Potbury, Robert John, Eng.c.....	D. C.	..1131 Euclid Street.
Potter, Charles Hollister, C.C.....	N. C.	..316 East Capitol Street.
Powers, Edgar Cordell, C.C.....	D. C.	..1327 Newton St., N. E.
Pratt, Mary B., Ed.....	Mass.	..821 16th Street.
Prentiss, Augustin Michael, Eng.c.....	S. C.	..1402 L Street.
Prescott, Edward Chepmell, Eng....	D. C.	..336 Md. Ave., N. E.
Prince, Ethel Thomas, Ed.....	D. C.	..The Portner.
Purcell, Julia, Ed.....	N. Y.	..1536 I Street.
Purcell, Tobias Edwin, Arch.....	N. Y.	..Y. M. C. A.
Pyles, Hester Ellen, C.C.....	D. C.	..13th & W Streets, S. E.
Ramsey, Harold Edwin, Eng.e.....	D. C.	..813 Mass. Ave., N. E.
Rawlings, Julia May, Ed.....	D. C.	..131 A Street, N. E.
Raymond, Maybelle, Ed.....	Pa.	..1810 N Street.
Reamey, Brewster, C.C.....	D. C.	..1746 N Street.
Reges, Maximilian F., Eng.c.....	Pa.	..1113 5th Street.
Register, Alberta Brown, C.C.....	Va.	..Alexandria, Va.
Rhodes, Ada, C.C.....	Va.	..Falls Church, Va.
Richard, Vernon Irving, C.C.....	D. C.	..309 B Street, N. E.
Richards, Alice Mary, Ed.....	Eng.	..1114 25th Street.
Richards, Chester Raymond, C.C....	Kans.	..The Sherman.
Richards, Ruth B., Ed.....	D. C.	..101 Massachusetts Ave.
Riley, Albert Austin, Eng.c.....	Ohio	..2616 Connecticut Ave.
Rives, John Joseph, Ed.....	N. C.	..316 9th Street, N. E.
Roberts, Norman, C.C.....	D. C.	..707 22d Street.
M.D., 1897, University of Pennsylvania.		
Robinson, Rebecca Selina, Ed.....	Canada	..The Arlington.
Rodgers, Frank Beverly, Eng.e.....	D. C.	..De Soto Apt. House.
Rogers, Frank Beecher, Eng.c.....	N. Y.	..1342 Girard Street.
Rogers, Orville S., Arch.....	Ill.	..1430 W Street.
Rose, Anna Lorette, C.C.....	D. C.	..1725 Euclid Street.
Ross, Lily Aurelia, Ed.....	Ark.	..1452 Belmont Street.
Rouzer, Horace Dodge, Eng.c.....	Md.	..2517 14th Street.
Rowlett, Allen H., Arch.....	Va.	..1530 9th Street.
Russell, Lewis H., Arch.....	N. Y.	..3538 Warder Street.
Ryan, William David, Jr., C.C.....	Ill.	..909 13th Street.
Safford, Howard Palmer, Eng.e....	D. C.	..2445 Brightwood Ave.
Sammons, Margaret R., Ed.....	N. Y.	..1604 K Street.
Sanders, Elsie, Ed.....	Germany.	..1360 Kenyon Street.
Sargent, Rufus Harvey, C.C.....	D. C.	..Geological Survey.
Satterlund, Hilda M., Ed.....	N. D.	..1223 Vermont Ave.
Saum, Irving Randolph, Eng.c.....	D. C.	..1308 Girard Street.
Saunders, Clara Rossman, Ed.....	Ohio	..The Brunswick.



Name.	Legal residence.	City address.
Schaub, Gustav Adolphus, C.C.....	Texas ..	1419 Chapin Street.
Schatz, Elmer, C.C.....	D. C. ..	423 Massachusetts Ave.
Schladt, George J., Eng.e.....	D. C. ..	820 B Street, N. E.
Schmitt, Hugo Rudolf, Eng.e.....	D. C. ..	211 Florida Ave.
Schmitt, Waldo Lasalle, C.C.....	D. C. ..	211 Florida Ave.
Schnabel, Fred., Eng.....	Ill. ....	1521 I Street.
Schreiber, Ernst Otto, Jr., C.C.....	D. C. ..	642 E Street, N. E.
Schultz, Dorothy F. N., C.C.....	D. C. ..	The Plaza.
Scott, Jos. Addison Preston, Eng.e..	D. C. ..	504 8th Street, N. E.
Scott, Oliver Hazard Perry, Eng.e..	S. C. ..	3207 11th Street.
Sebree, Jessie Lydia, C.C.....	D. C. ..	Ammendale, Md.
Seltzer, Naomi Ruth, C.C.....	D. C. ..	941 Westminster Street.
Shackelford, Laura, C.C.....	D. C. ..	924 Md. Ave., N. E.
Shanks, Samuel Lee, Arch.....	D. C. ..	1422 35th Street.
Shannon, Lucile A., C.C.....	Nebr. ..	2215 14th Street.
Sherwood, Sidney Forsythe, C.C....	Va. ....	1515 O Street.
Shinnick, Harry Allison, C.C.....	D. C. ...	70 T Street.
Shipman, Mary P., Ed.....	D. C. ...	3064 Q Street.
Shoemaker, Maynard Parker, Eng..	Md. ....	1638 New Jersey Ave.
Shrader, James Houston, C.C.....	D. C. ..	804 9th Street.
Shuman, Mrs. Mary Barber, Ed.....	N. J. ...	1311 M Street.
Shuman, Royal Lewis, C.C.....	Pa. ....	1311 M Street.
Simpson, Gustavus Sailer, Eng.e....	D. C. ..	1477 Columbia Road.
Simpson, Walter Scott, Eng.e.....	D. C. ..	508 10th Street, S. E.
Singleton, Ina Duvall, C.C.....	D. C. ..	2020 H Street.
Sipe, Susan Bender, C.C.....	D. C. ..	The Ontario.
Sisco, Henry Nathaniel, C.C.....	D. C. ..	1344 Vermont Ave.
Skidmore, Elnathan J., C.C.....	Mich. ..	1514 K Street.
Skinner, Hosea Edwin, C.C.....	Ill. ....	1433 L Street.
B.S., 1904, Valparaiso College.		
Sloane, C. E., Eng.....	D. C. ..	1521 10th Street.
Small, Madison Ruff, Ed.....	D. C. ..	1466 Harvard Street.
Smallwood, Dorothy Archibald, C.C.	D. C. ..	2107 S Street.
Smith, Chester Harvey, Eng.e.....	D. C. ..	327 2d Street, N. E.
Smith, Delos Hamilton, Arch.....	Ariz. ...	1905 F Street.
B.S. in Arch., 1906, The George Washington University.		
Smith, Everard Hall, Eng.e.....	D. C. ..	637 Mass. Ave., N. E.
Smith, Emma Miriam, Ed.....	Md. ....	800 E Street, N. E.
Smith, Ethel Marion, C.C.....	Ill. ....	1833 V Street.
Smith, Frank Newman, C.C.....	D. C. ..	The Ontario.
Smith, Harry Locke, Eng.e.....	N. H. ..	313 S Street, N. E.
Smith, Hoxsie Yost, Eng.e.....	D. C. ..	1619 17th Street.

Name.	Legal residence.	City address.
Smith, Mary Louise, C.C.....	D. C.	The Madrid.
Smith, Janie Alice, C.C.....	D. C.	..637 Mass. Ave., N. E.
Snelling, Henry Hornor, Eng.m....	Va.	..3522 10th Street.
Spalthoff, Wm. Dornedden, Eng.e....	N. Y.	..1916 H Street.
Springer, Jessie F., C.C.....	Ind.	..The Dewey Hotel.
Stabler, Harold Brooke, Eng.e.....	Md.	..1214 I Street.
Stafford, Charles F., Eng.m.....	N. Y.	..1515 O Street.
Starr, Relda A., C.C.....	N. Y.	..111 4th Street, S. E.
Staulil, Edgar J., Eng.e.....	N. D.	..1010 N Street.
Stearns, Orlo Foster, C.C.....	Mass.	..1115 K Street.
Steever, Laura Winfield, C.C.....	D. C.	..Forest Service.
Stewart, Barton Shriver, Arch.....	D. C.	..Y. M. C. A.
Stewart, Donald Holt, Eng.....	Md.	..R. F. D. No. 3, Silver Springs, Md.
Stewart, Elmer, C.C.....	D. C.	..1644 Newton Street.
Stinemetz, Morgan, Ed.....	D. C.	..1446 Irving Street.
Stout, Joseph Duerson, C.C.....	D. C.	..1529 8th Street.
Streamer, Louis Milton, Eng.....	D. C.	..746 12th Street, S. E.
Stromberger, Alice P., Ed.....	D. C.	..1325 Mass. Ave., S. E.
Stutler, Ward, Arch.....	W. Va.	..1736 G Street.
Stuwe, John Daniel, Eng.e.....	Minn.	..1017 P Street.
Sullivan, Anna Ermingarde, Ed.....	Iowa	..448 P Street.
Summy, Helen, C.C.....	D. C.	..920 19th Street.
Summy, Katherine Strong, C.C.....	D. C.	..920 19th Street.
Taylor, Irving Paul, C.C.....	D. C.	..1433 Belmont Street.
Taylor, James Norman, C.C.....	Del.	..1400 L Street.
Taylor, Margaret Randolph, C.C....	D. C.	..1330 U Street.
Taylor, Page, Ed.....	D. C.	..The Exeter.
Thatcher, Arthur S., C.C.....	Pa.	..Bureau of Chemistry.
Thomas, William J. Denziloe, C.C....	D. C.	..1530 20th Street.
Thompson, Frank Meredith, C.C....	D. C.	..Langdon, D. C.
Thompson, Herbert H., Eng.m.....	Ohio	..904 Mass. Ave., N. E.
Thompson, Walter H., Eng.e.....	Pa.	..1444 Rhode Island Ave.
Thomson, Anna Speck, C.C.....	Ky.	..2701 14th Street.
Thomson, Harriet Huntington, C.C..	Md.	..Silver Spring, Md.
Thorne, Harold Carrier, Eng.e.....	Minn.	..The Victoria, Apt. 2.
Thrall, Walter H., Eng.....	Vt.	..1910 15th Street.
Thrall, William Gove, Eng.e.....	Vt.	..1910 15th Street.
Todd, Cecilia, Ed.....	D. C.	..1243 Irving Street.
Tolson, Lillian Irene, Ed.....	Md.	..125 12th Street, N. E.
Tong, William Suwar, Eng.e.....	China	..1821 Cedar Street.
Town, Edith H., C.C.....	Va.	..1415 Chapin Street.
Tracy, Ethel Wynne, Ed.....	D. C.	..The Willson.



Name.	Legal residence.	City address.
Truesdell, Stephen Riggs, Eng.c....	D. C. ..1121	Harvard Street.
Tucker, Prescott Stearns. C.C.....	D. C. ..633	G Street, N. E.
Tulloss, Joseph Clark, Eng.m.....	Va. ....1110	F Street.
Tunstall, Florence Marie, C.C.....	D. C. ..1302	L Street.
Turnburke, Vernon Palmer, Eng.e...	D. C. ..403	P Street.
Udy, Stanley Hart, C.C.....	N. Y. ..Dept. of State.	
Underwood, Harriet, Ed.....	N. Y. ..3223	N Street.
Underwood, M. L., Ed.....	D. C. ..129	6th Street, N. E.
Van Alstyne, Harry Kendall, C.C....	N. Y. ..The Bachelor.	
Vance, Georgie E., C.C.....	D. C. ..430	M Street.
Vandegrift, John Leslie, Eng.....	D. C. ..209	H Street.
Vanden Bossche, Henry P., Eng.c..	Mass. ..326	16th Street, S. E.
Van Kirk, Lloyd Howard, Eng.....	Pa. ....1839	16th Street.
Van Vleck, William Cabell, Ed.....	D. C. ..800	E Street, N. E.
Veihmeyer, Frank, Eng.c.....	D. C. ..438	10th Street, S. W.
von Ezdorf, Robert, Jr., Arch.....	Pa. ....731	Girard Street.
Vorkoeper, John, C.C.....	D. C. ..1433	New Jersey Ave.
Wadsworth, Marth Blow, Ed.....	D. C. ..1801	Massachusetts Ave.
Waggaman, Clarke, Arch.....	D. C. ..2600	Connecticut Ave.
Wagner, S. Peter, Arch.....	Md. ....Rockville,	Md.
Walker, Alberta, Ed.....	D. C. ..1634	S Street.
Walker, Bertha F., Ed.....	D. C. ..420	B Street, N. E.
Walter, Wallace Wilson, C.C.....	Pa. ....3317	R Street.
Walton, George Pelham, C.C.....	D. C. ..Langdon,	D. C.
Wandelaer, Isabel de, Arch.....	D. C. ..1409	Newton Street.
Ward, Philip Henry, Jr., Eng.e.....	D. C. ..1756	Pennsylvania Ave.
Washburn, Martha, Ed.....	Mass. ..Nat'l	Cathedral School.
Waters, Joseph Henry, Eng.c.....	D. C. ..3227	11th Street.
Waters, Suzanne Beatrice, Ed.....	Wis. ....3009	11th Street.
Watts, Mary Jane, Ed.....	D. C. ..1206	Columbia Road.
Weller, Ethel Marguerite, C.C.....	D. C. ..753	8th Street, S. E.
Wenderoth, Ernest Ferdinand, Eng.e.	N. Y. ..Bureau of Standards.	
Wenz, Edward Lucas, Arch.....	Ohio ...1113	L Street.
White, Marian, Ed.....	Iowa ...1430	W Street.
White, Mary Josephine, Ed.....	Ohio ...National Park Seminary,	Forest Glen, Md.
White, Mabel Louise, C.C.....	Miss. ..Treasury	Department.
White, Sarah Eskridge, Ed.....	D. C. ..213	C Street, S. E.
Whitley, Isabel Alice, C.C.....	Ill. ....1150	N. Capitol Street.
Wiegand, Henry Frank, Eng.e.....	D. C. ..824	6th Street, S. W.
Wild, Alfred E., Jr., Eng.....	D. C. ..12	10th Street, N. E.
Wilgus, Blanche, C.C.....	D. C. ..1848	3d Street.
Will, Ernest McKeige, Arch.....	Fla. ....47	S Street.

Name.	Legal residence.	City address.
Willard, Clayton Edwin, C.C.....	D. C. ....	39½ Bates Street.
Williams, Charles Wesley, Eng.....	Pa. ....	232 P Street.
Williams, Pascoe W., C.C.....	Va. ....	Treasury Department.
Willis, Eppa Hunton, Arch.....	D. C. ....	635 9th Street, N. E.
Wills, R. Mayo, Eng.....	Va. ....	603 H Street.
Willson, Charles C., Eng.m.....	D. C. ....	57 R Street, N. E.
Wilson, David Edward, Ed.....	D. C. ....	1012 Park Road.
Wilson, John Joseph, Arch.....	Conn. ....	1408 V Street.
Wilson, Ruth, C.C.....	D. C. ....	214 P Street.
Winlock, Peyton, Arch.....	D. C. ....	1012 22d Street.
Winter, Max W., Eng.c.....	Nebr. ....	1448 Clifton Street.
Wise, Clarence Edward, C.C.....	Ind. ....	Silver Spring, Md.
Wiseman, Edward Wallace, Eng.....	Mo. ....	3629 11th Street.
Witten, Aubrey B., Arch.....	D. C. ....	2518 13th Street.
Woodward, Esther, Ed.....	D. C. ....	125 New York Ave.
Woodwell, Carolus Sylvester, C.C....	Fla. ....	930 16th Street.
Workman, Robert DuBois, C.C.....	Pa. ....	Marine Barracks.
Wrightson, James Owens, C.C.....	D. C. ....	812 20th Street.
Wyeth, John Churchill, Eng.e.....	Ariz. ....	The Cordova.
Yang, Sui Chi, Eng.c.....	China ..	Chinese Legation.
Ying, T. W., Eng.....	China ..	813 12th Street.
Yoder, Bertha Alice, Ed.....	Kans. ....	144 11th Street, S. E.
Yoder, Bessie Lee, Ed.....	Kans. ....	144 11th Street, S. E.
Young, Floyd D., C.C.....	Ore. ....	1446 N Street.
Young, Irene Otilie, C.C.....	Iowa ....	2210 Pennsylvania Ave.

## Summary.

## GRADUATE STUDENTS:

Students in attendance.....	14
Candidates for the D.C.L. degree.....	2
Candidates for the C.E. degree.....	3
Candidates for the E.E. degree.....	4
Candidates for the M.S. degree.....	9
Candidates for the M.A. degree.....	30
Candidates for the Jur.D. degree.....	1
Candidates for the Ph.D. degree.....	51
	— 114

## UNDERGRADUATE STUDENTS:

Columbian College:	
Candidates for the B.A. degree.....	136
Candidates for the B.S. degree.....	14
Candidates for the B.S. in Chem. degree.....	26
Special .....	123
	— 299



## Washington College of Engineering:

Candidates for the B.S. in C.E. degree.....	63
Candidates for the B.S. in E.E. degree.....	46
Candidates for the B.S. in M.E. degree.....	29
Special .....	53
	— 191

## Division of Architecture:

Candidates for the B.S. in Arch. degree.....	14
Special .....	42
	— 56

## Division of Education:

Candidates for the B.A. degree.....	55
Special (including Arts and Crafts).....	91
	— 146
Total .....	806

## COLLEGE OF THE POLITICAL SCIENCES.

Name.	Legal residence.	City address.
Allen, John Clarence.....	D. C. ....	1756 Church Street.
Altizer, Posey J.....	Ky. ....	1104 12th Street.
LL.B., 1908, The George Washington University.		
Anderson, Edward, Jr.....	Md. ....	803 12th Street.
Atkinson, Charles Raymond.....	Wyo. ....	1119 K Street.
Bayard, Philip .....	Del. ....	4 Iowa Circle.
Bendz, Waldman R.....	Md. ....	Beltsville, Md.
Bowen, Leonard .....	Va. ....	1025 22d Street.
Bowen, Norris .....	Va. ....	1025 22d Street.
Bryan, Albert W.....	Md. ....	Y. M. C. A. Bldg.
Bunch, Tillman .....	S. C. ....	727 13th Street.
Burch, George O.....	D. C. ....	1724 Newton Street.
Campbell, Robert Stuart.....	D. C. ....	3019 24th Street, N. E.
Carlson, Oscar H. W.....	Pa. ....	62 Rhode Island Ave.
Carmody, John D.....	Md. ....	1213 Vermont Ave.
A.B., 1893, Gonzaga College.		
Carroll, Louis W.....	D. C. ....	130, The Portner.
Carstairs, Charles Haseltine.....	Pa. ....	1737 N Street.
Clark, Frederic N.....	Mich. ....	3601 13th Street.
B.S., 1889, Michigan State Agricultural College.		
Costa, Alberto Palacios.....	Arg. Rep...	The Benedick.
Creecy, Donald Brooke.....	D. C. ....	2150 P Street.
dei Medici, Gino V. S.....	Italy ....	1728 Columbia Road.
Dodd, Philip Lindsley.....	N. J. ....	824 Connecticut Ave.

Name.	Legal residence.	City address.
Domeratzxy, Louis .....	Russia .....	1335 F Street.
Eldridge, Chester W.....	Mass. ....	1217 Harvard Street.
Fleming, Robert V.....	D. C. ....	1408 Massachusetts Ave.
Forbes, Daniel R.....	D. C. ....	1211 Girard Street.
Fort, J. Carter.....	D. C. ....	1613 30th Street.
Frost, Wesley .....	Ky. ....	1117 17th Street.
A.B., 1907, Oberlin College.		
Glessner, John A.....	Pa. ....	206 10th Street, N. E.
Greene, Bertram William B.....	D. C. ....	1829 Jefferson Place.
B.S., 1902, Massachusetts Institute of Technology.		
Hall, Francis Cadwalader.....	D. C. ....	Bu. of Statistics, Com. & Labor.
Hamm, Theodore Cushing.....	Calif. ....	Union Building.
Hardie, W. Vincent.....	Okla. ....	Interstate Commerce Commission.
Hart, Harry L.....	Kans. ....	919 20th Street.
Hayward, Afton Smith.....	Mass. ....	1136 25th Street.
B.S., 1906, Amherst College.		
Henry, Philip S.....	N. C. ....	1239 Vermont Ave.
A.B., London University.		
Holder, Charles Adams.....	Colo. ....	Hotel Normandie.
Hunt, John Stuart.....	Texas ....	1717 Euclid Street.
Ilustre, Eustacio C.....	P. I. ....	726 12th Street.
LL.B., 1908, The George Washington University.		
Jaeger, Oscar Ralph.....	Iowa ....	823 19th Street.
Kent, Otis Veall.....	Texas ....	The Carolina.
LL.B., 1907, LL.M., 1908, Georgetown University.		
Kimber, Emmor Harper.....	N. Y. ....	1311 K Street.
Laing, James Oliver.....	Mo. ....	Hotel Gordon.
Lamason, Orville B.....	N. J. ....	1708 P Street.
Lane, C. E.....	D. C. ....	1708 P Street.
Larzelere, Charles LaVerne.....	Mich. ....	1538 17th Street.
Levin, Michael .....	Wisc. ....	Light House Board.
Lewis, Leon Lawrence.....	Wisc. ....	The Iroquois.
McKenna, Coe Aloysius.....	Ore. ....	1413 V Street.
McLaughlin, F. M.....	Iowa ....	217 East Capitol Street.
Mapa, Emilio .....	P. I. ....	813 12th Street.
Martin, William M.....	Va. ....	1408 H Street.
Merritt, Eugene .....	D. C. ....	1778 Willard Street.
A.B., 1903, Cornell University.		
Merritt, Leonard A.....	Minn. ....	154 F Street, S. E.
LL.B., 1904, LL.M., 1905, The George Washington University.		



Name.	Legal residence.	City address.
Messer, Mary Burt.....	D. C. ....	Washington College. 3d and T St., N. E.
Neighbors, H. Fletcher.....	N. Y. ....	1760 Church Street.
Newcomb, Harold W.....	Mass. ....	Y. M. C. A.
Pearson, Edmund Lester.....	Mass. ....	1729 H Street.
A.B., 1902, Harvard University.		
B.L.S., 1904, University of New York.		
Randolph, Vivien Peyton.....	Miss. ....	1105 17th Street.
A.B., 1908, Randolph-Macon College.		
Redwood, Charles Cannon.....	Texas ....	1122 Vermont Ave.
LL.M., 1908, National University.		
Rogers, Silas Wesley.....	Ark. ....	1831 G Street.
LL.B., 1906, University of Arkansas.		
Rohrer, Joseph R.....	Ohio ....	1105 K Street.
Schuette, Oswald F.....	Ill. ....	1745 K Street.
Shuck, Walter L.....	Md. ....	Dept. of Agriculture.
Sidell, William E.....	N. J. ....	1317 Q Street.
Smith, Arthur Donaldson.....	N. C. ....	Hotel Grafton.
A.B., 1885, M.D., 1889, University of Pennsylvania.		
Smithers, George F.....	Del. ....	1337 L Street.
Sommers, Walter Allwood.....	N. Y. ....	657 F Street, N. E.
LL.B., 1906, LL.M., 1907, The George Washington University.		
Stambaugh, George Bingham....	D. C. ....	3833 14th Street.
Stephenson, Lowry Boyd.....	D. C. ....	1727 Riggs Place.
Stubblefield, Simon Peter.....	Miss. ....	2024 G Street.
B.S., 1908, University of Mississippi.		
Thatcher, Charlie E.....	Neb. ....	928 B Street, N. E.
Thomas, Sidney Taylor, Jr.....	D. C. ....	1726 20th Street.
Thomson, Alfred Ray.....	Md. ....	Silver Spring, Md.
Tyacke, Margaret .....	Mass. ....	1326 Park Road.
Vonnegut, Arthur .....	Ind. ....	1028 17th Street.
A.B., 1906, Cornell University.		
Waters, William Clark.....	D. C. ....	716 14th Street.
Wiest, Edward S.....	Pa. ....	1433 Massachusetts Ave.
Willett, Albert W.....	D. C. ....	2519 Connecticut Ave.
Wilson, Lee R.....	D. C. ....	16th & Lawrence Sts., N. E.
Wilson, William Ewing.....	D. C. ....	761 Girard Street.
Winship, North .....	Ga. ....	East Falls Church, Va.
Woodmansee, Arthur .....	Ohio ....	2011 G Street.
Woolsey, Lester Hood .....	N. Y. ....	1404 Park Road.
A.B., 1901, Harvard University.		
LL.B., 1908, The George Washington University.		

Name.	Legal residence.	City address.
Worthington, A. Saunders.....	Ohio .....	3009 Q Street.
Yaeger, William Leonard, Jr.....	D. C. ....	Int. Bldg. Corp'n.
Yen, Weiching Williams.....	China .....	2001 19th Street.
B.A., 1897, University of Virginia.		
Litt.D., Emperor of China.		
Zapf, Lacey C.....	Tenn. ....	1311 K Street.
A.B., 1906, De Pauw University.		
Zapf, Louis R.....	Tenn. ....	1311 K Street.
A.B., 1906, De Pauw University.		
Zapoleon, Louis B.....	Ohio .....	515 13th Street.

## Summary.

Candidates for A.B. degree.....	9
Candidates for M.Dip. degree.....	11
Special .....	69
	— 89



## GEOGRAPHICAL DISTRIBUTION OF UNIVERSITY STUDENTS.

Alabama .....	6	Rhode Island .....	8
Arizona .....	3	South Carolina .....	13
Arkansas .....	5	South Dakota .....	8
California .....	10	Tennessee .....	13
Colorado .....	7	Texas .....	15
Connecticut .....	7	Utah .....	7
Delaware .....	8	Vermont .....	9
District of Columbia.....	573	Virginia .....	87
Florida .....	8	Washington .....	7
Georgia .....	9	West Virginia .....	9
Idaho .....	7	Wisconsin .....	28
Illinois .....	48	Wyoming .....	2
Indiana .....	21	Argentine Republic .....	1
Iowa .....	21	Australia .....	1
Kansas .....	10	Canada .....	3
Kentucky .....	17	Central America .....	1
Louisiana .....	5	China .....	5
Maine .....	7	Costa Rica .....	1
Maryland .....	89	Cuba .....	1
Massachusetts .....	55	England .....	3
Michigan .....	26	Finland .....	1
Minnesota .....	17	France .....	2
Mississippi .....	11	Germany .....	4
Missouri .....	18	Greece .....	1
Montana .....	2	Italy .....	3
Nebraska .....	14	Mexico .....	1
New Hampshire .....	6	Nova Scotia .....	1
New Jersey .....	18	Peru .....	1
New Mexico .....	1	Philippine Islands .....	9
New York .....	73	Porto Rico .....	4
North Carolina .....	21	Russia .....	4
North Dakota .....	5	South Africa .....	3
Ohio .....	38	Switzerland .....	1
Oklahoma .....	8	Turkey .....	1
Oregon .....	6	Uruguay .....	4
Pennsylvania .....	78		

## RECAPITULATION.

## MEMBERS OF FACULTIES AND TEACHING STAFF:

Professors .....	83
Associate Professors .....	7
Assistant Professors .....	22
Associates, Instructors, Demonstrators and Assistants....	61
Lecturers .....	12
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Total .....	185

## STUDENTS:

Graduate .....	114
Undergraduate .....	692
College of the Political Sciences.....	89
Professional .....	625
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Duplicates .....	12
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Total .....	1508

## DEPARTMENT OF ARTS AND SCIENCES:

	Faculty.	Students.
Faculty of Graduate Studies.....	45	114
Undergraduate Colleges and Divisions including the College of the Political Sciences.....	49	781
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	94	895

## PROFESSIONAL DEPARTMENTS:

Department of Law.....	18	341
Department of Medicine.....	68	156
Department of Dentistry.....	14	30
National College of Pharmacy.....	10	63
College of Veterinary Medicine.....	15	35
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Totals .....	125	625
Duplicates .....	219	1520
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Totals .....	185	1508



By Transfer  
OCT 30 1911

The  
George Washington University

DEPARTMENT OF LAW

ANNOUNCEMENTS

1909-1910

CATALOGUE

1908-1909

PUBLISHED BY THE UNIVERSITY, AT WASHINGTON, D. C., MAY, 1909.





The General Catalogue of the University, to be issued in June, may be had upon application to the Secretary of the University.

## Department of Law.

### FACULTY.

CHARLES WILLIS NEEDHAM, LL.D.	PRESIDENT OF THE UNIVERSITY
WILLIAM REYNOLDS VANCE, Ph.D., LL.B.	Professor of Law, Dean
JOHN M. HARLAN, LL.D.	Professor of Law
MELVILLE CHURCH, LL.M.	Professor of the Law of Patents
WALTER C. CLEPHANE, LL.M.	Professor of Law
EDWIN C. BRANDENBURG, LL.M.	Professor of Law
ARTHUR PETER, LL.M.	Professor of Law
†HENRY P. BLAIR, LL.M.	Professor of Law
STANTON J. PEELE, LL.D.	Professor of Law
JOHN PAUL EARNEST, A.M., LL.M.	Professor of Law
ERNEST G. LORENZEN, Ph.B., LL.B., J.U.D.	Professor of Law
JAMES BROWN SCOTT, M.A., J.U.D.	Professor of Law
EDWARD SAMPSON THURSTON, A.M., LL.B.	Professor of Law
WENDELL PHILLIPS STAFFORD, LL.D.	Professor of Law
JOSIAH A. VAN ORSDER, LL.D.	Professor of Law
JULIEN CHARLES MONNET, M.A., LL.B.	Instructor in Practice
JOHN WILMER LATIMER, LL.B.	Clerk of the Moot Court
ALFRED BUHRMAN	Secretary
HARRY C. DAVIS.	

### COURT OF APPEALS.

WILLIAM F. MATTINGLY, LL.D.	Chief Justice
JOHN B. LARNER, LL.D.	Associate Justice
A. A. HOEHLING, JR., LL.M.	Associate Justice

### GENERAL STATEMENT.

This Department, established in 1865, is the oldest school of law in the city of Washington. Its course of instruction for the degree of Bachelor of Laws, originally requiring but two years, was gradually expanded, until, in 1898, in accordance with the recommendation of the American Bar Association, it was increased to three years. The Faculty has also shown a gradual increase in numbers commensurate with the expansion of the course and the growing number of students in attendance. Beginning with 1903, the Board of Trustees adopted the

† Absent on leave.



policy of placing most of the important topics of substantive law under the charge of trained professional teachers giving their whole time to the work of legal instruction. Of these there are now five. Those branches of the law connected with practice will continue to be under the charge of professors who are actively engaged in the administration of the law either at the Bar, or on the Bench.

In 1877 a year of graduate work, leading to the degree of Master of Laws, was added to the course of instruction offered, and in 1905 a special graduate course of three years, leading to the degree of Doctor of Jurisprudence, was established. Work for this degree is now carried on by members of the Law Faculty under the general direction of the University Faculty of Graduate Studies. A special course in Patent Law was added in 1895.

In June, 1898, an ordinance was adopted by the Board of Trustees formally establishing as a separate department of the University the Department of Jurisprudence and Diplomacy. This Department was opened on November 15, 1898.

In 1904, by the authority of the Board of Trustees, a new adjustment of graduate work in the University was made, resulting in the establishment of the Departments of Law and of Politics and Diplomacy (now called the College of the Political Sciences), the former embracing the undergraduate course in municipal law and graduate courses in the broader fields of general law, and the latter graduate and undergraduate courses in the political sciences, special attention being given to diplomacy.

#### SEPARATE COURSES FOR ALL-DAY AND AFTERNOON STUDENTS.

Since 1903 the work of the Law School has gradually been transferred from the late afternoon hours to the forenoon, and at the present time the lectures offered to all-day students are largely confined to the earlier part of the day. To these students is offered a course consisting of fourteen hours a week for three years, leading to the degree of Bachelor of Laws (LL.B.).

To meet the needs of those students whose employment in the Government service, or elsewhere, prevents their attendance before 4.30 in the afternoon, an afternoon course is given, consisting of ten hours a week for three years and leading to the degree of Bachelor of Law (B.L.). This course offered to afternoon students satisfies the requirements of the Association of American Law Schools, of which this school is a member.\*

\* This distinction between the degrees of LL.B. and B.L. is in accordance with the recommendation of the Committee on Legal Education of the American Bar Association. See Vol. 31, Reports American Bar Association (1907) p. 514.

Students who have received the degree of B.L. may, upon completing a fourth year of twelve hours a week in the afternoon, receive the degree of LL.B.

#### LOCATION.

All classes in the Department of Law are held in the Law Building, situated on H street, adjoining the main University building, at the corner of Fifteenth street. This hall, dedicated on January 3, 1899, was especially designed for the work of this Department. It is commodious and well equipped with lecture-rooms, Moot Court rooms and offices, and contains the law library, with a conference-room adjoining.

#### ACADEMIC YEAR.

The academic year extends through more than eight months, beginning on the last Wednesday in September and ending on the second Wednesday in June, and is divided into two half-years, the second half-year beginning on the first day of February. The session of 1909-10 begins on Wednesday, September 29, and closes Wednesday, June 8. Since most of the courses given during the first half-year are completed before the beginning of the second half-year, it is possible for a student to enter on the 1st of February of any year and be graduated three years from that date, receiving his degree at the Winter Convocation, held on February 22, of each year.

Lectures begin promptly on the first day of the term, and students applying for admission at a later day will be admitted only upon showing good cause for the delay and by special action of the Faculty.

#### ADMISSION.

##### 1. FOR THE DEGREE OF BACHELOR OF LAWS (LL.B.).

Applicants for admission as candidates for the degree of Bachelor of Laws must be at least eighteen years of age and must have had educational training sufficient to satisfy the entrance requirements of the Department of Arts and Sciences of the University. In order to satisfy these requirements, which are set out at length in the General Catalogue of the University, students must present credits aggregating 15 units, which are broadly equivalent to a four years' high school course. Applicants for admission on certificate should secure formal certificates setting forth the credits claimed, and present these certificates attached to their application forms. All applications for admission should be addressed to the Secretary of the University, who will, upon request, furnish proper blanks and detailed information as to entrance examinations.

*Advanced Requirements.* The requirement of two years of college work for admission to regular standing, heretofore announced to take



effect at the opening of the session 1909-1910, is postponed until such time as shall hereafter be fixed by the Law Faculty.\*

2. FOR THE DEGREE OF BACHELOR OF LAW (B.L.).

Applicants for admission as candidates for this degree must satisfy the same requirements as those demanded of candidates for the LL.B. degree.

3. FOR THE DEGREE OF MASTER OF LAWS.

Candidates for the degree of Master of Laws must be at least twenty-one years of age and hold the degree of Bachelor of Laws from an institution substantially complying with the requirements of the Association of American Law Schools, of which this school is a member.

4. FOR THE DEGREE OF MASTER OF PATENT LAW.

Only those students who are graduates of an approved law school or members of the bar in good standing will be admitted as candidates for the degree of Master of Patent Law.

5. FOR THE DEGREE OF DOCTOR OF JURISPRUDENCE.

No student will be admitted as a candidate for the degree of Doctor of Jurisprudence unless he shall hold a baccalaureate degree conferred by some institution of approved standing after the completion of a liberal course of undergraduate academic study, and possess a reading knowledge of Latin, French, and German. At the discretion of the Faculty, however, other languages may be substituted when the character of the work undertaken is such as to warrant it. The right is reserved to the Faculty of Graduate Studies to decide in all cases whether the applicant has given sufficient evidence that his antecedent training fulfils these requirements. In addition, the candidate must hold the degree of Bachelor of Laws from this University or from some other institution requiring equivalent work as a prerequisite to that degree.

6. SPECIAL STUDENTS.

Persons who for any reason do not qualify as candidates for a degree may, on the recommendation of the Faculty and with the assent of the professors whose courses they elect to take, be admitted as special students.

\* During the past four years the amount of work required for a degree has been increased, methods of instruction have been changed, and the standard of work exacted in the classroom and upon examination has been raised. The recovery of the Law School from the losses consequent upon these changes has been slower than was anticipated, upon which account it is deemed advisable to postpone putting the advanced requirement into effect. The Faculty and Board of Trustees have not relinquished their determination to put in force this requirement at the earliest practicable date.

## DEPARTMENT OF LAW.

### ADVANCED STANDING.

Students may be admitted to advanced standing in the second or third year classes upon satisfying the requirements for the work of the preceding year or years. These requirements may be met by presenting certificates from other law schools of accredited standing showing that the student has successfully completed equivalent courses, or by passing the regular examinations set for that purpose at the beginning of the term, after the student has shown that he has pursued a course of study in the subjects upon which he is examined, covering at least as many hours as are required for such subjects in this University.

All examinations that may be required of applicants for advanced standing are held during the first week of each session.

### HOURS FOR LECTURES.

In the all-day course, leading to the degree of Bachelor of Laws (LL.B.), the greater part of the instruction is given between the hours of 9.00 a. m. and 1.00 p. m.

In the afternoon course, leading to the degree of Bachelor of Law (B.L.), instruction is given between the hours of 4.50 and 6.30 in the afternoon.

Instruction in the fourth year's work required of holders of the degree of Bachelor of Law (B.L.) to obtain the degree of Bachelor of Laws (LL.B.), is also given in the afternoon between 4.50 and 6.30.

The courses open to candidates for the degree of Master of Laws (LL.M.) are, as a general rule, given in the afternoon, though a number of the forenoon courses may be elected as hereinafter indicated, subject to the approval of the Dean.

### METHOD OF INSTRUCTION.

Instruction in the class-room is based upon the study and discussion of cases. In some of the courses students are required to read parallel assignments in text-books.

In conducting the discussion of cases in the class-room every effort is made to lead the student to a clear understanding of the fundamental legal principles that may be involved, and to afford him scientific training in accurate methods of study and of reasoning along legal lines. Students are also required to submit written briefs upon doubtful points of law, to draw up contracts, conveyances, and other papers when the nature of the subject in hand is such as to make exercises of this kind useful in giving accurate instruction.

Subjects involving the adjective law are in charge of professors who are engaged in active practice. The general principles of these subjects, taught in the same manner as indicated above, are developed by practice before the Moot Courts.



## UNDERGRADUATE PROFESSIONAL COURSES.

Undergraduate students in Arts and Sciences upon the completion of forty-five units of credit may take the first year's work of the course for Bachelor of Laws, crediting them fifteen units, on the completion of which they may receive the academic degree.

## COURSES OF INSTRUCTION.

## A. FULL-DAY COURSE LEADING TO THE DEGREE OF BACHELOR OF LAWS (LL.B.).

The course of instruction leading to the degree of Bachelor of Laws extends through a period of three years. A minimum of forty-two hours' work is required of all candidates for this degree, except that regular students registered prior to 1908 will be permitted to qualify for their degrees upon the completion of the course as required at the time of their entrance.

## FIRST YEAR SUBJECTS.

*First Half-Year.*

Contracts. Assistant Professor MONNET. Three hours a week. Williston's Cases on Contracts.

Constitutional Law. Professor HARLAN. Two hours a week. Cooley's Constitutional Law and McClain's Cases on Constitutional Law.

Torts. Professor THURSTON. Five hours a week. Ames & Smith's Cases on Torts.

Domestic Relations. Professor BLAIR. Two hours a week. Long on Domestic Relations.

Criminal Law. Professor EARNEST. Two hours a week. Clark on Criminal Law and Mikell's Cases on Criminal Law.

Bailments. Professor PELLE. One hour a week. Hale on Bailments.

*Second Half-Year.*

Contracts. Assistant Professor MONNET. Four hours a week. Williston's Cases on Contracts.

Property I. Professor VANCE. Four hours a week. Gray's Cases on Property, Volumes I and II.

Constitutional Law. Professor HARLAN. Two hours a week. Cooley's Constitutional Law and McClain's Cases on Constitutional Law.

Criminal Procedure. Professor EARNEST. One hour a week. Clark on Criminal Procedure.

Agency (including Master and Servant). Professor THURSTON. Three hours a week. Wambaugh's Cases on Agency.

## SECOND YEAR SUBJECTS.

*First Half-Year.*

Property II. Professor VANCE. Two hours a week. Gray's Cases on Property, Volumes II and III.

Common Law Pleading and Practice. Professor CLEPHANE. Two hours a week. Tyler's Stephen on Pleading.

Evidence. Professor PETER. Two hours a week. McKelvey on Evidence and Thayer's Cases on Evidence.

Corporations. Professor LORENZEN. Two hours a week. Smith's Cases on Corporations.

Insurance. Professor VANCE. Two hours a week. Wambaugh's Cases on Insurance.

Equity I. Professor STAFFORD. Two hours a week. Ames' Cases on Equity Jurisdiction.

Suretyship. Professor THURSTON. Two hours a week. Ames' Cases on Suretyship.

*Second Half-Year.*

Property II. Professor VANCE. Two hours a week. Gray's Cases on Property, Volumes III and V.

Evidence. Professor PETER. Two hours a week. McKelvey on Evidence and Thayer's Cases on Evidence.

Equity Pleading. Professor CLEPHANE. One hour a week. Thompson's Cases on Equity Pleading.

Corporations. Professor LORENZEN. Two hours a week. Smith's Cases on Corporations.

Equity II. Professor STAFFORD. Two hours a week. Ames' Cases on Equity Jurisdiction.

Quasi-contracts. Professor THURSTON. Three hours a week. Scott's Cases on Quasi-contracts.

Sales. Professor BLAIR. Two hours a week. Burdick's Cases on Sales.

Partnership. Professor PELLE. One hour a week. Burdick on Partnership.

## THIRD YEAR SUBJECTS.

During the session of 1909-10 third-year students may select from the following courses such subjects as, together with the required Moot Court work, will make up the required minimum of twelve hours a week.

Elections of courses to be taken must be made in all cases within ten days after the beginning of the semester in which such courses are given.



*First Half-Year.*

Moot Court. Professors CLEPHANE, EARNEST, and PETER. Two hours a week. (*Required.*)

Property III. Professor VANCE. Three hours a week. Gray's Cases on Property, Volumes III and V.

Mortgages. Assistant Professor MONNET. Two hours a week. Wyman's Cases on Mortgages.

Municipal Corporations. Professor LORENZEN. Two hours a week. Smith's Cases on Municipal Corporations.

Roman Law. Professor LORENZEN. Two hours a week.

Legal Tactics. Professor CLEPHANE. One hour a week.

Bankruptcy. Professor BRANDENBURG. Two hours a week. Brandenburg on Bankruptcy.

Water Rights and Irrigation. Professor VAN ORSDEL. One hour a week. Long on Irrigation.

Admiralty. Professor SCOTT. Two hours a week. Ames' Cases on Admiralty.

*Second Half-Year.*

Moot Court. Professors CLEPHANE, EARNEST, and PETER. Two hours a week. (*Required.*)

Conflict of Laws. Professor LORENZEN. Four hours a week. Lorenzen's Cases on Conflict of Laws.

Trusts. Professor THURSTON. Three hours a week. Ames' Cases on Trusts.

Federal Procedure. Professor BRANDENBURG. Two hours a week. Hughes on Federal Procedure.

Organization and Management of Corporations. Professor CLEPHANE. One hour a week. Clephane on the Organization and Management of Corporations.

Equity II. Professor STAFFORD. Two hours a week. Ames' Cases on Equity Jurisdiction.

Wills and Administration. Professor PETER. One hour a week.

## B. AFTERNOON COURSE LEADING TO THE DEGREE OF BACHELOR OF LAW (B.L.).

The course of instruction leading to the degree of Bachelor of Law extends through a period of three years. A minimum of thirty hours' work is required of all candidates for this degree. This course, covering the fundamental subjects of the law, is intended to prepare students for admission to the bar in any of the States or Territories of the United States.

## FIRST YEAR SUBJECTS.

*First Half-Year.*

- Contracts. Assistant Professor MONNET. Three hours a week.  
 Williston's Cases on Contracts.  
 Constitutional Law. Professor HARLAN. Two hours a week.  
 Cooley's Constitutional Law and McClain's Cases on Constitutional Law.  
 Torts. Professor THURSTON. Five hours a week. Ames & Smith's Cases on Torts.  
 Bailments. Professor PEELE. One hour a week. Hale on Bailments.

*Second Half-Year.*

- Contracts. Assistant Professor MONNET. Four hours a week. Williston's Cases on Contracts.  
 Property I. Professor VANCE. Four hours a week. Gray's Cases on Property, Volumes I and II.  
 Constitutional Law. Professor HARLAN. Two hours a week.  
 Cooley's Constitutional Law and McClain's Cases on Constitutional Law.

## SECOND YEAR SUBJECTS.

*First Half-Year.*

- Property II. Professor VANCE. Two hours a week. Gray's Cases on Property, Volumes II and III.  
 Evidence. Professor PETER. Two hours a week. McKelvey on Evidence and Thayer's Cases on Evidence.  
 Common Law Pleading and Practice. Professor CLEPHANE. Two hours a week. Tyler's Stephen on Pleading.  
 Criminal Law. Professor EARNEST. Two hours a week. Clark on Criminal Law and Mikell's Cases on Criminal Law.  
 Equity I. Professor STAFFORD. Two hours a week. Ames' Cases on Equity Jurisdiction.

*Second Half-Year.*

- Property II. Professor VANCE. Two hours a week. Gray's Cases on Property, Volumes III and V.  
 Evidence. Professor PETER. Two hours a week. McKelvey on Evidence and Thayer's Cases on Evidence.  
 Equity Pleading. Professor CLEPHANE. One hour a week. Thompson's Cases on Equity Pleading.  
 Criminal Procedure. Professor EARNEST. One hour a week. Clark on Criminal Procedure.  
 Equity II. Professor STAFFORD. Two hours a week. Ames' Cases on Equity Jurisdiction.



Agency (including Master and Servant). Professor THURSTON. Three hours a week. Wambaugh's Cases on Agency.

Partnership. Professor PELLE. One hour a week. Burdick on Partnership.

### THIRD YEAR SUBJECTS.

Third-year afternoon students are required to complete the work in Moot Court and Equity and, in addition, at least three hours' work from the subjects scheduled below. The remaining work required of this class may be freely elected from courses not previously taken.

#### *First Half-Year.*

Moot Court. Professors CLEPHANE, EARNEST, and PETER. Two hours a week. (*Required.*)

Equity I. Professor STAFFORD. Two hours a week. Ames' Cases on Equity Jurisdiction. (*Required.*)

Property III. Professor VANCE. Three hours a week. Gray's Cases on Property, Volumes III and V.

Municipal Corporations. Professor LORENZEN. Two hours a week. Smith's Cases on Municipal Corporations.

Bills and Notes. Professor LORENZEN. Three hours a week. Huffcut's Negotiable Instruments; Statutes, Cases and Authorities.

Legal Tactics. Professor CLEPHANE. One hour a week.

Water Rights and Irrigation. Professor VAN ORSDEL. One hour a week. Long on Irrigation.

#### *Second Half-Year.*

Moot Court. Professors CLEPHANE, EARNEST, and PETER. Two hours a week. (*Required.*)

Equity II. Professor STAFFORD. Two hours a week. Ames' Cases on Equity Jurisdiction. (*Required.*)

Conflict of Laws. Professor LORENZEN. Four hours a week. Lorenzen's Cases on Conflict of Laws.

Trusts. Professor THURSTON. Three hours a week. Ames' Cases on Trusts.

Organization and Management of Corporations. Professor CLEPHANE. One hour a week. Clephane on the Organization and Management of Corporations.

### FOURTH YEAR SUBJECTS.

Fourth-year afternoon students, candidates for the LL.B. degree, may freely elect from the courses not previously taken, subjects aggregating a sufficient number of hours to satisfy the requirements for this degree. During the session 1909-10 the following courses will be so scheduled as to be available for fourth-year afternoon students.

*First Half-Year.*

Insurance. Professor VANCE. Two hours a week. Wambaugh's Cases on Insurance.

Suretyship. Professor THURSTON. Two hours a week. Ames' Cases on Suretyship.

Water Rights and Irrigation. Professor VAN ORSDEL. One hour a week. Long on Irrigation.

Roman Law. Professor LORENZEN. Two hours a week.

Municipal Corporations. Professor LORENZEN. Two hours a week.

Smith's Cases on Municipal Corporations.

Domestic Relations. Professor BLAIR. Two hours a week. Long on Domestic Relations.

*Second Half-Year.*

Agency (including Master and Servant). Professor THURSTON. Three hours a week. Wambaugh's Cases on Agency.

Conflict of Laws. Professor LORENZEN. Four hours a week. Lorenzen's Cases on Conflict of Laws.

Trusts. Professor THURSTON. Three hours a week. Ames' Cases on Trusts.

## C. LEADING TO THE DEGREE OF MASTER OF LAWS (LL.M.).

Students admitted as candidates for the degree of Master of Laws are required to elect courses, not previously taken, covering a minimum of ten hours a week. These may be freely elected from the courses offered by the Faculty of Law and from the following courses given in The College of the Political Sciences.

Comparative Constitutional Law. Professor WILLOUGHBY. Two hours a week, one-half year.

International Arbitration. Professor BREWER. One hour a week, one-half year. Taylor's International Law.

International Law. Professor SCOTT. Two hours a week, one year. Scott's Cases on International Law.

Government Control of Transportation. President NEEDHAM. Two hours a week, one year.

Administrative Law. Dr. MCBAIN. Two hours a week, first half-year. Goodnow's Cases on Administrative Law.

Private Rights and Immunities under the Constitution. Dr. MCBAIN. Two hours a week, second half-year.

*Advanced Practice.* Candidates for the Master's degree may also elect advanced practice work in the Moot Court, receiving therefor a credit of two hours for the year.



#### D. LEADING TO THE DEGREE OF MASTER OF PATENT LAW (M.P.L.).

A special course in Patent Law and Patent Law Practice is given by Professor Church. The purpose of this course is to prepare those taking it for practice in all matters involving the law of patents. The course extends throughout one year, with two lectures or sessions of the Moot Court each week. (For the admission requirements for this course, see page 6.)

#### E. LEADING TO THE DEGREE OF DOCTOR OF JURISPRUDENCE (J.D.).

The work for this degree is similar in character, method, and scope to that required for the degree of Doctor of Philosophy, and is under the control of the University Faculty of Graduate Studies. See the General Catalogue of the University.

#### COURSES IN PRACTICE.

##### A. MOOT COURT WORK.

###### 1. *Third Year:*

Particular stress is laid upon Moot Court work. Aside from the practice court connected with the course in Patent Law, there are four courts in which undergraduate students pursue their work. Three of these are *nisi prius* courts and are presided over by members of the Washington Bar in active practice. The fourth is a Court of Appeals to review the cases tried in the courts of first instance. This court also is composed of members of the Washington Bar.

Every third-year student before receiving the Bachelor's degree is required to prepare the pleadings in and prosecute to judgment the required number of cases in the *nisi prius* courts, with the privilege of appeal to the appellate tribunal. At least two hours in each week during the year must be spent by each third-year student in active participation in Moot Court work in the court-room to which he is assigned.

Statements of facts are furnished, such as would be related to a lawyer in active practice by his client. Each student must determine whether or not upon such facts the particular case in hand is one of common-law or equitable cognizance. He must then frame his pleadings, serve his writs, and answer his adversary's pleadings until issue is joined in legal manner, after which the case is brought on for hearing in strict accordance with the rules of actual practice. Juries are empaneled in accordance with settled legal procedure, witnesses are examined and cross-examined, and the case conducted through all the various stages of the trial or hearing down to and including the judg-

ment or decree, after which, should the case be appealed, it must be carried through the appellate court, involving the preparation of the record on appeal, briefs of counsel, etc.

### 2. *Fourth Year:*

The same facilities for Moot Court work as are described above are afforded in the course leading to the degree of Master of Laws. In this course, however, the nature of the cases assigned is somewhat different, involving, in addition to the ordinary cases at common-law or in equity, cases of a special character, such as habeas corpus, certiorari, quo warranto, injunction, mandamus, extradition, replevin, attachment, etc.

### 3. *Officers and Equipment:*

The clerk of the Moot Court is one of the assistant clerks of the Supreme Court of the District of Columbia, but his assistants in each court-room are chosen from the student body, from whose ranks are also drawn the criers, jurors, and other officials, thus giving to the students the benefit of practice in administrative judicial machinery. The Moot Court is to all intents and purposes an actual court. The rooms in which the sessions are held are fitted up with judges' benches, clerks' desks, jury-boxes, and counsel table, and from the time the crier announces that the court is in session until he announces its adjournment the procedure is identical with that of a regular judicial tribunal.

It is believed that any student who gives the proper attention to this feature of the law curriculum will be enabled to go out from this institution and creditably try cases in court, although he may never have been in an actual court-room.

A careful record is kept of the work of each student, both as to his pleadings and his conduct of the case in court, and the ratings thus given determine, in connection with his ratings upon other subjects, whether or not he is entitled to a degree.

## B. LEGAL TACTICS.

Every young lawyer entering upon his professional career is desirous of availing himself of the experience of an older practitioner and of learning many things which are not taught and cannot be taught from books. It is to meet the needs of this class of men that this course has been inaugurated. It is in charge of a member of the Washington Bar whose practice has been an active one, extending over a period of many years.

A short introductory talk is given upon the relations between attorney and client, including the important subject of fees, after which the student is given the benefit of practical hints upon the manner of start-



ing in practice and opening and furnishing an office, with suggestions as to office systems. Advice is given as to selecting a law library, the best way to find authorities in point, and how such authorities should be used in court.

The student is told how to listen intelligently to his client's grievances; how to draw up the pleadings arising out of these grievances; how to prepare for trial the case thus made, including the work of preparing the evidence; how to try the case and examine and cross-examine witnesses; the manner of making up the record, writing briefs, and conducting the argument on appeal. The subject of professional ethics is discussed. At various times during the year distinguished lawyers are invited to appear and discuss informally special topics of interest to the students.

### EXAMINATIONS AND GRADES.

#### A. UNDERGRADUATE COURSES.

##### *Regular Examinations:*

Written examinations are held at the close of each semester upon those subjects that have been completed during that semester. All students, unless specially excused by the Dean, are required to take the first examination held in any subject after their completion of the course in that subject.

No student, except by special permission of the Dean, will be allowed to take an examination in any subject unless he shall be regularly registered and have been in regular attendance upon the lectures and have done all the work required in the course of instruction upon that subject.

##### *Grades:*

At all examinations, the grading of students will be indicated by the letters A, B, C, D, E, and F, representing, respectively, *excellent*, *good*, *satisfactory*, *fair*, *conditioned*, and *failed*.

##### *Conditions:*

A student receiving the grade of E (*conditioned*), in the regular examination in any course, will be given an opportunity to remove the condition by passing a subsequent examination with the grade of C or better.

The regular examinations for the removal of conditions will be held during the first week of each session. Applications for permission to take any of these examinations must be made to the Dean, in writing, not later than three days before the date for which such examination is scheduled. Candidates for either of the Bachelor's degrees may, by action of the Faculty, be granted special examinations in not more than

two subjects carried as conditions during the first semester of their last year, at the end of that semester, and in one subject carried as a condition during the second semester, at the end of that year.

A student receiving the grade of F (*failed*), in any examination, or the grade of D or E in any examination to pass off a condition in any course, will be required to take the course over again before being permitted to take another examination in such course.

*Class Standing:*

Students having conditions in more than two subjects will not be advanced from one class to another, nor will candidates for a degree be permitted to carry more than one condition into the second semester of the year in which they expect to be graduated. Students may have, however (subject to the provisions above enumerated), an opportunity to remove conditions, imposed during any session, by taking the regular examinations for the removal of conditions at the beginning of the following session, for which no fee is charged.

Students having conditions in more than three subjects will not be allowed to register except upon special permission from the Dean.

*Special Examinations:*

No special examinations, other than those above provided for, will be granted to any students except those of the graduating class who, for good cause, shall have been excused by the Dean from taking any regular examination during the third year.

*Attendance:*

Regular attendance is required in all courses; and the examination grade of any student in any course may be withheld and the passing of another examination or the repetition of the course may be required on the sole ground of unsatisfactory attendance.

*Election of Courses:*

No student shall be allowed to register in courses aggregating more than sixteen hours during any one semester without first obtaining the permission of the Faculty.

Every student who is a candidate for graduation with the degree of Bachelor of Laws in his third year shall take and pass in each semester of his third-year courses aggregating ten hours.

Election of courses to be taken must be made in all cases within ten days after the beginning of the semester in which such courses are given.

## B. GRADUATE COURSES.

Examinations in graduate courses will be given at such times and under such conditions as may be designated by the professors in charge.



## DEGREES.

## 1. BACHELOR OF LAWS.

The degree of Bachelor of Laws will be conferred upon students who shall have passed satisfactory examinations upon the subjects required in the entire course of three years and whose attendance and conduct have been satisfactory to the Faculty.

The degree of Bachelor of Laws *with distinction* will be awarded to students whose average percentage in all subjects is equivalent to the grade of A.

## 2. BACHELOR OF LAW (B.L.)

The degree of Bachelor of Law will be conferred upon students who shall have completed the work prescribed for this degree, and whose attendance and conduct have been satisfactory to the Faculty.

## 3. MASTER OF LAWS.

The degree of Master of Laws will be conferred upon students who have completed the work prescribed for this degree with the grade of C or better and whose attendance and conduct have been satisfactory to the Faculty.

## 4. MASTER OF PATENT LAW.

The degree of Master of Patent Law will be conferred upon students who shall have successfully completed the work of the Patent Law course and whose attendance and conduct have been satisfactory to the Faculty.

## 5. DOCTOR OF JURISPRUDENCE.

The degree of Doctor of Jurisprudence is given for graduate work in the science of the law upon the same terms and conditions as the degree of Doctor of Philosophy in the Department of Arts and Sciences. See the General Catalogue.

## LAW LIBRARY AND READING-ROOM.

A well-equipped working library, comprising about 5200 volumes, is open to the students in Law Lecture Hall from 9 a. m. to 10 p. m. Competent librarians are in charge and will give students assistance in looking up subjects and in the use of books.

The Library contains the standard text-books, the West Reporter system of Federal and State Decisions complete, State Reports, the English Common Law and Chancery Reports, Encyclopædias of Law, Digests, reference books, and current law publications.

Adjoining the Library is a conversation-room for students, affording opportunity for consultation.

In addition to these facilities, the students have free access to the Congressional Library and other public libraries.

## PRIZES.

A prize offered by the Edward Thompson Company, of a set of the Encyclopædia of Law, first or second edition, or a set of the Encyclopædia of Pleading and Practice, is awarded each year to the senior law student who shall write the best thesis on some legal subject to be assigned by the Faculty.

Three prizes—one of \$40, one of \$30, and one of \$20—are annually given to the respective authors of the best three essays handed in by such members of the third-year class as shall compete for them and shall pass successful examinations.

A prize of \$25 in gold, offered by Mr. Fritz von Briesen, called the "Ellsworth Prize," is awarded for the best work done in the Patent Law Course by a student receiving the degree of Master of Patent Laws.

## PUBLIC SPEAKING.

Excellent facilities for training in the art of public speaking are afforded by the two debating societies that have been organized in the Department of Law. These societies, known as the Columbian and Needham Debating Societies, meet weekly for debate. Membership in these societies is entirely optional, but their work is encouraged in every legitimate way by the Faculty, and students are urgently advised to take part in their exercises. During each academic year several intercollegiate debates are held. Membership upon the intercollegiate debating teams is an honor eagerly sought and made the prize to be won in separate preliminary contests. The general conduct of these intercollegiate debates is under the supervision of a committee from the Faculty.

## ADMISSION TO THE BAR OF THE DISTRICT OF COLUMBIA.

By the rules of the Supreme Court of the District of Columbia, applicants for admission to the Bar are required to have studied law for three years under the direction of a competent attorney, but by those rules the course in the Department of Law of the University is regarded as discharging this requirement.

## FEES.

1. Matriculation fee (payable once).....	\$5
2. Annual library fee.....	2
3. Tuition fee per annum for each hour taken per week.....	10
4. Late registration fee in the case of students registering for the first term after October 20, or for the second term after February 20, excepting for courses which do not begin with the terms .....	2
5. Fee for graduation .....	10
6. Tuition fee for course in Patent Law.....	40
7. Fee for a certificate under the seal of the University.....	2



No change will be made in the fees fixed at the time of registration except in case of withdrawal, and then only upon notice in due form, and from the end of the current quarter session when such withdrawal shall be approved. Applications for the granting of a withdrawal should be made on the prescribed form to be obtained from the Secretary and will only be received at the end of a quarter session.

The library fee will not be charged for the first half-year during which a course is completed in the case of students who enter at the beginning of the second half-year and pay the library fee for that year.

#### PAYMENT OF FEES.

All fees are to be paid to the Treasurer. Regular tuition fees are payable quarterly in advance. Fees for special courses are payable monthly in advance. Matriculation and library fees are payable in full in advance.

#### BOARD AND ROOMS.

A register of approved boarding houses is kept by the Treasurer. Accommodations cost from \$25 to \$40 a month.

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For catalogues, application blanks, and further information, address

THE SECRETARY,

*The George Washington University,  
Washington, D. C.*

# Students.

## DEPARTMENT OF LAW.

### Bachelor of Laws.

#### First Year.

Name.	Legal residence.	City address.
Baer, David Alphonse.....	D. C. ....	3044 N Street.
Baldwin, Edward Damon.....	Ore. ....	1736 G Street.
B.Lit., 1906, Whitman College.		
Beneman, George .....	Md. ....	1336 7th Street.
Berger, Charles Pratt.....	Mich. ....	1313 Columbia Road.
Berry, James William.....	D. C. ....	14 3d Street, S. E.
Bloomer, George Beale.....	D. C. ....	1410 G Street.
Callister, Edward Richard.....	Utah ....	1333 R Street.
Carpenter, Newton Ford.....	D. C. ....	Apt. 62, The Wyoming.
Catlin, Henry William.....	Colo. ....	910 23d Street.
Chilcott, Ralph Waldo.....	Va. ....	Fairfax, Va.
B.S., 1908, South Dakota State College.		
Corrigan, John, Jr.....	Ga. ....	The Farragut.
Curl, Joseph Ryland.....	D. C. ....	2312 I Street.
Dodge, Parker Van Patten.....	D. C. ....	134 B Street, N. E.
S.B., 1907, Massachusetts Institute of Technology.		
DuBois, Henry Pastor.....	Pa. ....	1421 Chapin Street.
M.E., 1907, Cornell University.		
Foo, Hsen Shuen.....	China ....	Apt. 22, The Madrid.
A.B., 1906, The Ching Chong School.		
Gerhardt, Louis Webster.....	Pa. ....	4 B Street, N. E.
Geyer, Berkeley Willard.....	D. C. ....	1923 S Street.
C.E., 1907, Princeton University.		
Gross, LeRoy Coates.....	N. J. ....	718 21st Street.
Hutchins, William Ambrose.....	Ohio ....	1217 Harvard Street.
Hutchinson, Frederick Porter.....	Kans. ....	1119 17th Street.
Johnston, Horace Stuart.....	D. C. ....	123 F Street, S. E.
Knox, Hugh Smith.....	Pa. ....	1527 K Street.
B.A., 1907, Yale University.		
Lamas y Almansa, Dionisio.....	Cuba ....	1414 N Street.
Lambeck, Arthur Hugo.....	Wisc. ....	Apt. 34, The Ventosa.
B.A., 1907, University of Wisconsin.		
Leavitt, Ezekiel .....	D. C. ....	1201 N. Capitol Street.
Odessa Gymnasium, Russia.		
Lloyd, Thomas Leslie.....	Mo. ....	The Olympia.



Name.	Legal residence.	City address.
Marye, Tench Tilghman.....	D. C. ....	1526 29th Street.
Mather, James .....	Eng. ....	711 5th Street, N. E.
Moore, Richard Gray.....	Mass. ....	
Nicholson, Soterios .....	Greece ....	1801 G Street.
Phillips, Henry Jeter.....	Va. ....	Geo. Washington Hotel.
Place, Ernest Frederic Alan.....	N. Y. ....	House of Rep.
Schoenfeld, Hans Fred. Arthur.....	N. J. ....	3448 34th Place, Cleve- land Park, D. C.
B.A., 1907, The George Washington University.		
Taylor, Bright Hopkins.....	Mo. ....	Rockville, Md.
Tilton, Rufus Harold.....	Mass. ....	220 2d Street, N. E.
Ph.B., 1908, Wesleyan University.		
Towles, Henry Orme.....	D. C. ....	1124 12th Street.
Treat, Howard Alton.....	Minn. ....	Y. M. C. A.
Whitstone, Isadore David.....	Pa. ....	House of Rep. Office Bldg.
A.B., 1908, Yale University.		
Wood, William Morton.....	Minn. ....	House of Rep. Office Bldg.

## Second Year.

Adams, William Waugh.....	N. Y. ....	1423 S Street.
Agee, John Hercules.....	Nebr. ....	1736 G Street.
Allee, James Frank, Jr.....	Del. ....	516 13th Street.
Black, Charles Frederick.....	Vt. ....	1404 15th Street.
Ph.B., 1907, University of Vermont.		
Blount, Walter Eames.....	D. C. ....	3101 R Street.
Brantley, William Gordon, Jr....	Ga. ....	2024 G Street.
A.B., 1907, University of Georgia.		
Campbell, Philip Barrand.....	D. C. ....	1977 Biltmore Street.
Dodson, James Dunbar.....	D. C. ....	1714 F Street.
Dutton, Clarence Benjamin.....	Mass. ....	1412 15th Street.
Everett, Frank Orear.....	Mo. ....	916 14th Street.
Faulkner, William Ernest.....	Ky. ....	435 G Street.
B.A., 1907, Union College.		
Ford, Frank Farnsworth.....	Mich. ....	1931 K Street.
Gates, Edward Percy.....	D. C. ....	3506 Center Street.
B.A., 1908, The George Washington University.		
Graff, William Archibald.....	Va. ....	114 E Street.
Hellen, Arthur .....	D. C. ....	1731 20th Street.
Holcombe, Amasa Maynard.....	Mass. ....	1829 Corcoran Street.
B.S., 1904, Massachusetts Institute of Technology.		

## DEPARTMENT OF LAW.

Name.	Legal residence.	City address.
Hubbard, Lyle .....	Iowa .....	1700 15th Street.
Hunter, Clyde Elliott.....	Md. ....	Y. M. C. A.
Hupper, Roscoe Henderson.....	Me. ....	812 East Capitol Street.
A.B., 1907, Bowdoin College.		
Kitselman, Harry Louis.....	Ind. ....	406 The Burlington.
Lambert, Chester Cromer.....	D. C. ....	2127 15th Street.
LeDuc, Louis Bronson.....	D. C. ....	1403 21st Street.
Mackenzie, Robert Lundie.....	Ore. ....	1011 H Street.
MacPhail, Leland Stanford.....	Mich. ....	Apt. 14, The Columbia.
McClenon, Walter Holbrook.....	S. D. ....	1106 P Street.
A.B., 1907, Iowa College.		
Moore, Josiah Arthur.....	Ill. ....	1404 Massachusetts Ave.
B.S., Milikin University.		
Oberlin, John Jay.....	Md. ....	Patent Office.
A.B., 1901, Washington and Lee University.		
Parker, Francis Joseph.....	S. D. ....	4 B Street N. E.
Pease, Ferdinand Henry.....	Vt. ....	1404 15th Street.
B.A., 1907, University of Vermont.		
Schultz, Detlef Henry.....	Ind. ....	26 Iowa Circle.
Simmons, Berkeley Leo.....	D. C. ....	1421 Belmont Street.
Simmons, William Wyatt.....	Miss. ....	1105 K Street.
B.A., 1905, Mississippi College.		
Sincerbeaux, Chauncey Milton.....	N. Y. ....	1920 I Street.
A.B., 1905, Yale University.		
Singleton, Ogle Ridout.....	D. C. ....	2020 H Street.
B.A., 1908, The George Washington University.		
Smith, Thomas William.....	Idaho ....	Y. M. C. A.
Smith, William Henry.....	Ment. ....	714 18th Street.
Smithers, Nathaniel Barratt.....	Del. ....	518 13th Street.
Smoot, John Daniel Kurtz.....	Va. ....	Langley, Va.
Spencer, Thomas Peachy.....	Va. ....	The Iroquois.
A.B., 1905, William and Mary College.		
Swift, John Tuttle.....	Mass. ....	26 Iowa Circle.
Taylor, Kenneth .....	Minn. ....	1433 Belmont Street.
B.S., 1907, Carleton College.		
Van Vleck, William Cobell.....	D. C. ....	800 E Street, N. E.
B.A., 1908, The George Washington University.		
Wilmer, Edward George.....	Wisc. ....	308 F Street.
Wyatt, Hardee .....	N. Mex. ....	1811 13th Street.
B.A., B.S., LL., 1900, University of Nashville.		
Zirkle, Joseph Claiborne.....	Va. ....	837 Shepherd Street.



## Third Year.

Name.	Legal residence.	City address.
Adams, Thomas Berton.....	Fla. ....	912 H Street. B.A., 1903, University of Nashville.
Aldrich, Charles Roberts.....	Ill. ....	The Benedick. B.A., 1903, Yale University.
Allen, Charles Louis.....	S. D. ....	1700 15th Street.
Ambrose, George Lewis.....	Mont. ....	1333 R Street.
Arlitt, John Louis.....	Texas ....	2024 G Street.
Banning, Archibald Tanner, Jr.....	N. Y. ....	1445 Massachusetts Ave. A.B., 1904, Cornell University.
Barndollar, Burton Hack.....	Pa. ....	3510 N. H. Ave.
Barr, James .....	Wisc. ....	2024 G Street.
Barrick, Henry Llewellyn.....	Neb. ....	The Plymouth.
Bigoness, Octave Adelbert.....	D. C. ....	Little Falls Road, D. C.
Birney, William McDonald.....	D. C. ....	1516 22d Street.
Biscoe, John Edward .....	D. C. ....	The Farragut. Grad. Engr., 1904, Virginia Military Institute.
Briggs, Benjamin Franklin.....	Me. ....	26 Iowa Circle.
Bruninga, John Hermann.....	Ill. ....	Patent Office.
Cable, John Levi.....	Ohio ....	1700 15th Street. L.B., 1906, Kenyon College.
Carpenter, Walter Clayton.....	R. I. ....	The Mendota. Ph.B., 1906, Brown University.
Caywood, Charles Chester.....	D. C. ....	1629 Newton Street.
Childs, Frederick Willard.....	Vt. ....	The Champlain.
Clark, Chester Morrow.....	D. C. ....	Florence Court. A.B., 1907, Harvard University.
Cragin, Harry Seymour.....	D. C. ....	1013 L Street.
Dallwig, Paul .....	Wisc. ....	903 13th Street.
Dallzell, Robert Duff.....	Pa. ....	1605 N. H. Ave. A.B., 1903, Yale University.
Davenport, Lewis Howard.....	N. Y. ....	2624 University Place.
DeLancy, Roi .....	Ohio ....	1226 11th Street. B.A., 1908, The George Washington University.
Edgerton, Frank Eugene.....	Neb. ....	115 4th Street, S. E. A.B., 1900, University of Nebraska.
Finney, Harry Whiting.....	D. C. ....	2204 Q Street.
Fravel, F. Russell.....	Mass. ....	1016 15th Street.
Garrett, Clyde Davis.....	D. C. ....	945 O Street.
Glennan, Arthur Wyman.....	D. C. ....	Columbian Building.
Gonzalez, Antonio Cornelius, Jr.....	N. Y. ....	1417 K Street.
Graves, Pleasant Fowler.....	Texas ....	26 Iowa Circle. Ph.B., 1903, Southwestern University.

# DEPARTMENT OF LAW.

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Name.	Legal residence.	City address.
Haines, Milton	Ohio	U. S. Capitol.
B.S., 1898, Ohio Northern University.		
Haselton, George Irving	N. H.	1002 N Street.
Hemmick, Frank Schley	D. C.	1700 15th Street.
Horner, Errol Osman	N. J.	1700 15th Street.
Hutchins, Wells Aleck	D. C.	1401 Massachusetts Ave.
Jenkins, Warren Maxwell	Pa.	26 Iowa Circle.
A.B., 1906, Grove City College.		
Jensen, John	Utah	1333 R Street.
B.A., 1906, University of Utah.		
Kelly, Jerome Elmer	S. D.	Senate Post Office.
Kester, Bruce Randall	Pa.	The Brunswick.
Koons, George Hickman	Ind.	26 Iowa Circle.
Lawburgh, Robert Lee	Ind.	1714 15th Street.
A.M., 1905, De Pauw University.		
Leach, Harry Earl	Calif.	The Burlington.
Lohm, Albert Lafayette	W. Va.	House of Rep.
Micou, Richard Dunnica	Va.	Home Life Bldg.
B.A., 1903, M.A., 1903, University of Virginia.		
Miller, Walter Karl	Kans.	33 B Street.
Nyemaster, Jesse Ray	Iowa	312 Md. Ave., N. E.
Phair, Philip DeWitt	Me.	131 A Street, N. E.
M.A., 1906, Harvard University.		
Pillow, Gideon Johnston	La.	1464 Clifton Street.
Riddleberger, Harrison Heath	Va.	U. S. Senate.
Roche, Sidney	D. C.	1325 1st Street, S. W.
Smith, Dyer	Pa.	East Orange, N. J.
M.E., 1903, Lehigh University.		
Smith, George Thomas	Md.	3635 11th Street.
Stuart, Paul Allison	Pa.	26 Iowa Circle.
A.M., 1906, Washington and Jefferson College.		
Sullivan, Horace Moore	Tenn.	230 N. Capitol Street.
Thomas, Bert Carl	Ohio	1615 Florida Ave.
Tyrer, Arthur James	Wash.	The Albemarle.
Ulke, Titus	D. C.	411 15th Street.
E.M., 1889, Royal Academy of Mines, Freiberg, Saxony.		
Wagner, Harold J.	N. Y.	State Department.
Wallace, Alfred, Jr.	S. C.	614 M Street.
LL.B., 1908, University of South Carolina.		
Whiting, Roscoe Everett	Wash.	Stratford Hotel.
A.B., 1901, Bowdoin College.		



## Bachelor of Law.

## First Year.

Name.	Legal residence.	City address.
Andersen, Charles .....	Texas .....	216 N. Capitol Street.
Bean, George Tinny.....	D. C. ....	Patent Office.
Boughton, Solon James .....	Ohio .....	2024 G Street.
Brookes, John St. Clair, Jr.....	D. C. ....	1525 Corcoran Street.
A.B., 1907, The George Washington University.		
Burns, Walter William.....	N. Y. ....	1321 Q Street.
M.E., 1906, Cornell University.		
Byrd, Harry Clifton.....	Md. ....	1204 K Street.
B.S. in C.E., Maryland Agricultural College.		
Byrn, Edward Wright, Jr.....	Md. ....	627 F Street.
Carpenter, John Condict.....	D. C. ....	1318 Vermont Ave.
M.E., 1908, Cornell University.		
Chapman, Henry Hendley.....	D. C. ....	913 New York Ave.
Clark, Horace Fletcher, Jr.....	D. C. ....	1460 Harvard Street.
Councilor, James Allan.....	Iowa .....	2012 1st Street.
Cox, Henry Aubrey.....	Tenn. ....	711 Mt. Vernon Place.
Davis, Warren Jefferson.....	Va. ....	Apt. 129, The Cairo.
B.A., 1903, Eastern College.		
Dean, Franklin Augustus, Jr.....	Pa. ....	The Mendota.
A.B., 1907, Yale University.		
Disque, William Alfred.....	Ky. ....	Y. M. C. A.
Egner, Daniel Webster.....	Md. ....	War Department.
Eickhoff, Theodore Henry.....	Ind. ....	1522 16th Street.
B.S. in E.E., 1908, Purdue University.		
Fauntleroy, John Smith Young...	La. ....	House of Rep.
A.B., 1905, Louisiana State University.		
Fischer, Stanley Herman.....	D. C. ....	1515 T Street.
Fraser, William Wright.....	Md. ....	1414 15th Street.
A.B., 1905, New Windsor College.		
French, Francis Raymond.....	D. C. ....	The California.
Geiman, Daniel J.....	Va. ....	1404 M Street.
Gerhart, Herbert Benjamin.....	Pa. ....	1845 Calvert Street.
Gill, Walter Josiah, Jr.....	Mass. ....	Patent Office.
S.B., 1904, Massachusetts Institute of Technology.		
Glazer, Jacob Bennett.....	N. Y. ....	603 H Street.
Goode, Philip Burwell.....	D. C. ....	Patent Office.
A.B., 1907, Harvard University.		
Gray, Jay Lyman.....	Me. ....	812 East Capitol Street
A.B., 1908, Bowdoin College.		
Griffin, John Calvin.....	N. Y. ....	The Naples.
Ph.B., 1908, Syracuse University.		

Name.	Legal residence.	City address.
Hart, Wayne Maris.....	D. C. ....	1536 6th Street.
Herriott, David Paul.....	Pa. ....	1700 15th Street.
A.B., 1905, Washington and Jefferson College.		
Hilton, Charles Vanderbilt.....	Md. ....	3264 N Street.
Howes, John William.....	Mass. ....	930 F Street.
Hynson, Richard Washburn.....	D. C. ....	1335 N Street.
Kemper, Edward Crawford.....	D. C. ....	1512 Park Road.
Kause, Arthur John.....	D. C. ....	1905 Jackson St., N. E.
Lamb, Orrin Vestal.....	S. D. ....	1000 M Street.
Lilly, Scott Henry.....	Iowa ....	4122 7th Street.
B.A., 1897, Cornell College.		
Littlefield, John Cottle.....	Utah ....	1312 12th Street.
Long, Franklin Samuel.....	D. C. ....	2206 Flagler Place.
Manning, George Madison A....	Ky. ....	1304 13th Street.
Mechlin, Ernest Frederick.....	D. C. ....	3020 Cambridge Place.
B.S., 1907, The George Washington University.		
Meyer, Harry Edwin.....	Ohio ....	2616 Connecticut Ave.
Miller, Herman .....	Neb. ....	Patent Office.
B.S., 1898, Nebraska Wesleyan University.		
Moyer, Samuel .....	Pa. ....	323 W Street, N. E.
Mueller, Edward Louis.....	D. C. ....	803 8th Street.
Myers, John Dashiell.....	D. C. ....	The Vermont.
Neal, Franklin Gilman.....	Mass. ....	1623 Park Road.
Ph.B., 1908, Yale University.		
Owen, Richard Blakelock.....	D. C. ....	1715 Kilbourne Place.
Palais, Maurice .....	Mass. ....	206 Indiana Ave.
Perry, Jesse Greene.....	Ga. ....	227 New Jersey Ave.
Phelps, Claude Bascombe.....	Ala. ....	1113 O Street.
Preston, J. Stanley.....	N. Y. ....	1736 G Street.
Reavis, Andrew Bryant.....	Tenn. ....	3555 11th Street.
Rich, Samuel Grover.....	Idaho ....	
B.S. in Chemistry, Agricultural College of Utah.		
Roadstrum, Victor Nelson.....	Ill. ....	1435 K Street.
Robinette, Howard Augustine....	D. C. ....	15 3d Street.
Rowland, Guy Edwin.....	Texas ....	1519 Rhode Island Ave.
Rush, Clifford Alvin.....	Kans. ....	938 K Street.
Sheridan, Thomas Harold.....	N. H. ....	Y. M. C. A.
Smith, Charles Watson.....	Pa. ....	1111 M Street.
Smith, Jesse Bond.....	D. C. ....	Takoma Park, D. C.
Somerville, Robert Nugent.....	Miss. ....	345 House of Rep.
A.B., 1907, University of Mississippi.		
Stebbins, George Edwin.....	Mass. ....	Patent Office.
A.B., 1903, Bates College.		
Ph.D., 1907, Clark University.		



Name.	Legal residence.	City address.
Stinchfield, Ray Lewis.....	Mass. ....	Y. M. C. A. B.S., Worcester Polytechnic Institute.
Stockslager, William Morse.....	Idaho ....	Y. M. C. A. A.B., 1907, Valparaiso University.
Stratton, David Vincent.....	Ore. ....	
Thorp, Clarendon Herbert.....	Ohio ....	419 6th Street.
Walker, John Earl.....	Mich. ....	1119 17th Street. B.S., 1907, Kalamazoo College. B.S., 1907, Chicago University.
Wann, Eugene Charles.....	D. C. ....	144 F Street, S. E.
West, Martin Raymond.....	D. C. ....	138 11th Street, S. E.
Wilson, Charles Shafer.....	D. C. ....	108 G Street.
Windsor, Lemuel Henry.....	D. C. ....	145 E Street, S. E.

## Second Year.

Bradley, Paul Earl.....	Ill. ....	2451 18th Street.
Brisbine, Dawes Ellsworth.....	S. D. ....	U. S. Senate Post Office.
Brohough, Oscar C.....	Minn. ....	819 5th Street. B.A., 1903, University of Minnesota.
Calder, Albert Russell.....	Pa. ....	917 N. C. Ave., S. E.
Crafts, Frederick Albert.....	Mass. ....	206 Pa. Ave., S. E.
Dahn, Franz Frederick Wm.....	Iowa ....	1515 O Street.
Garrett, George Everett.....	Va. ....	101 8th Street, S. E.
Grover, William Robinson.....	Mich. ....	1205 N Street. Ph.B., 1907, Kalamazoo College.
Guasp, Ignacio .....	Porto Rico.	2024 G Street.
Hill, Herman Henry.....	N. H. ....	60 M Street. A.B., 1907, Dartmouth College.
McCray, Claud Henry.....	N. Y. ....	G. W. U. B.S., 1907, Hobart College.
O'Neal, Warwick Christy.....	D. C. ....	807 Varnum Street. C.E., 1906, Pennsylvania Military College.
Seiler, Justin Frank.....	Ohio ....	American Univ. Heights. B.A., 1908, The George Washington University.
Smith, Conger Ryder.....	Mich. ....	Y. M. C. A.
Thompson, Oscar .....	Wisc. ....	Treasury Dept.
White, Herbert William.....	Iowa ....	1700 15th Street. Ph.B., 1907, Simpson College.

## Third Year.

Gilmore, Thomas Mador, Jr.....	Ky. ....	Bond Building.
Homer, John Albert.....	Utah ....	1806 H Street.

Name.	Legal residence.	City address.
Meriam, Lewis .....	Mass. ....	Bureau of the Census.
A.B., 1905, A.M., 1906, Harvard University.		
Ott, Alfred Walter.....	Ky. ....	2517 14th Street.
Pearce, Harry Hamlin.....	Mich. ....	1700 15th Street.
A.B., 1905, Albion College.		
Scantling, Philip Lee.....	D. C. ....	1627 R Street.
Swenarton, Harold Augustus.....	N. J. ....	1538 17th Street.
Ph.B., 1905, Yale University.		

## Special.

Babcock, Richard Earle.....	D. C. ....	707 G Street.
Behrmann, Carl Martin.....	Ill. ....	Y. M. C. A.
Billingsley, Jesse Lee.....	Fla. ....	Metropolitan Hotel.
Borchardt, Edwin Montefiore.....	N. Y. ....	1734 U Street.
B.S., 1905, Columbia University.		
LL.B., 1908, New York Law School.		
Bouhan, John J.....	Ga. ....	1124 8th Street.
B.Let., 1905, St. Mary's College.		
Bowen, John M.....	Mass. ....	719 E. Capitol Street.
Bullion, Clarence Leroy.....	Ohio ....	1305 Rhode Island Ave.
Calvert, John Wentworth.....	Md. ....	1750 Corcoran Street.
Catlin, Frank Durand, Jr.....	Colo. ....	910 23d Street.
Childs, Homer Alexander.....	Minn. ....	150 Tennessee Ave.
Cissell, John Floyd.....	Md. ....	Silver Spring, Md.
Cohen, Abe .....	Wisc. ....	1013 O Street.
Curran, Thomas Leo.....	D. C. ....	305 1st Street, S. E.
Davis, Harold William.....	Pa. ....	1736 G Street.
Ellis, Harry Van Horn.....	D. C. ....	203 C Street, N. E.
Farmer, James Price.....	D. C. ....	154 A Street, N. E.
Flather, Alfred Chester.....	D. C. ....	612 8th Street, N. E.
Gudmunsen, Isaac Ray .....	Idaho ....	804 19th Street.
Hart, Frederick Cecil.....	Colo. ....	The Normandie Hotel.
A.B., 1909, Harvard University.		
Hastings, Grover Cleveland .....	D. C. ....	The Madrid.
Hemenway, George R.....	Ind. ....	The Portland.
Hoover, Frank Willard.....	D. C. ....	1824 16th Street.
Houston, William Cannon, Jr....	Tenn. ....	112 3d Street, N. E.
Jacobs, Judson Wriley.....	Md. ....	14th and U Streets.
Jacobsen, Walter .....	Minn. ....	236 New Jersey Ave.
Kimber, Emmor Harper .....	N. Y. ....	1311 K Street.
King, Charles Albert.....	D. C. ....	1818 8th Street.
Koeppler, John Louis.....	Wisc. ....	504 3d Street.
Kreuttner, Joseph Warwick.....	Va. ....	The Westover.



Name.	Legal residence.	City address.
Landick, George, Jr.....	Ind. ....	1358 Fairmont Street.
Lerch, John George.....	D. C. ....	1520 M Street.
Lewis, George Lippitt.....	D. C. ....	The Mendota.
Mathews, Roy Lee.....	Ohio ....	3323 17th Street.
Matthews, Calvin Bruce.....	Tenn. ....	Navy Yard.
McGill, John Fauntleroy.....	D. C. ....	Marine Barracks.
Metsker, Glen Roy.....	Wash. ....	General Land Office.
LL.B., 1908, University of Washington.		
Moore, Hervey Studdiford.....	N. J. ....	1700 15th Street.
Patterson, Charles H.....	N. Y. ....	Army and Navy Club.
Graduate, 1903, United States Military Academy.		
Peck, George Curtis.....	N. Y. ....	House of Rep.
Phillips, Ivon William.....	N. Y. ....	3560 11th Street.
LL.B., 1908, The George Washington University.		
Ravenel, Gaillard FitzSimons....	D. C. ....	1611 Riggs Place.
LL.B., 1908, University of Virginia.		
Reed, Philip, Jr.....	Md. ....	Rockville, Md.
Stipe, William Frederick.....	Iowa ....	330 Md. Ave., N. E.
Thomas, Columbus Austin.....	D. C. ....	1231 Girard Street.
Turri, Giulio Luigi.....	Italy ....	The Highlands.
Doctor of Social Sci., 1905, Royal Institute of Social Science, Italy.		
Wallace, Sebon Rains.....	D. C. ....	1754 Willard Street.
Warden, Franklin Milton.....	Ill. ....	1764 U Street.
Watson, Paul Herbert.....	Kans. ....	1322 Kearney Street.

#### Master of Patent Law.

Brandenburg, Edgar Thomas.....	N. Y. ....	Loan & Trust Bldg.
Bruninga, John Hermann.....	Ill. ....	Patent Office.
LL.B., 1908, The George Washington University.		
Davidson, Arthur William.....	Ohio ....	19 Grant Place.
B.A., 1899, Western Reserve University. LL.B., 1908, The George Washington University.		
Ferguson, John Alexander.....	Mich. ....	1318 Park Road.
LL.B., 1908, National University.		
Hallauer, Nelson A.....	N. Y. ....	Patent Office.
LL.B., 1908, National University.		
Hardy, William Abbott.....	Mass. ....	1615 Florida Ave.
LL.B., 1908, National University.		
Harris, Joseph William.....	Pa. ....	Patent Office.
LL.B., 1908, National University.		
Hendricks, Walter Frisby.....	Tenn. ....	1111 H Street.
LL.B., 1907, LL.M., 1908, National University.		

Name.	Legal residence.	City address.
Hidden, Charles Popham.....	N. Y. ....	1016 13th Street.
M.E., 1897, Stevens Institute of Technology.		
LL.B., 1908, National University.		
Jarboe, Charles Gwinn.....	Md. ....	The New Berne.
A.B., 1896, A.M., 1901, St. John's College.		
LL.B., 1908, National University.		
Jewett, Nelson Josiah.....	Mich. ....	3024½ R Street.
LL.B., 1908, Georgetown University.		
Johnston, Robert .....	Wyom. ....	Court of Claims.
LL.B., 1906, National University.		
Jones, George Bayard.....	D. C. ....	The Decatur.
B.S., 1905, Massachusetts Institute of Technology.		
LL.B., 1908, The George Washington University.		
Kneipp, Hugh .....	Ill. ....	313 5th Street, S. E.
LL.B., 1901, University of Michigan.		
McKay, Clarence Orson.....	Mich. ....	Patent Office.
LL.B., 1908, National University.		
MacNab, Forrest Burleigh.....	Mass. ....	1204 G Street, N. E.
LL.M., 1907, National University.		
Molloy, John .....	Md. ....	820 Munsey Building.
LL.B., 1906, LL.M., 1907, Georgetown University.		
Paddock, Lawrence Sands.....	N. J. ....	Patent Office.
LL.B., 1908, National University.		
Peck, Everett Johnson.....	N. J. ....	732 17th Street.
LL.B., 1908, National University.		
Pollard, Willard Lacy.....	Ill. ....	1615 Florida Ave.
Powell, John Goodwin.....	Va. ....	The Brunswick.
LL.B., 1908, National University.		
Ramsey, George William.....	Ill. ....	Patent Office.
LL.B., 1908, The George Washington University.		
Richey, Francis Olin.....	D. C. ....	732 17th Street.
LL.B., 1908, National University.		
Richmond, Carl A.....	Ill. ....	Marquette Bg., Chicago.
Rowley, Clifford Alonzo.....	D. C. ....	1344 Kenyon Street.
Shoemaker, William David.....	Md. ....	Patent Office.
Small, Warren Harvey.....	Mass. ....	Patent Office.
A.B., 1905, Harvard University.		
Tarbox, John Preston.....	S. C. ....	McGill Building.
B.A., 1904, Clemson College.		
LL.B., 1908, National University.		
Ulke, Titus .....	D. C. ....	411 15th Street.
E.M., 1899, Royal Academy of Mines, Freiberg.		
Saxony.		
LL.B., 1908, The George Washington University.		



Name.	Legal residence.	City address.
Wiegand, Gustave William.....	Minn. ....	900 K Street.
LL.B., 1902, LL.M., 1908, National University.		
Willard, Charles Franklin.....	Mass. ....	1333 Fairmont Street.
B.S., 1901, Massachusetts Institute of Technology.		
J.B., 1906, J.M., 1907, Boston University.		
Wilson, Ira Jay.....	Wisc. ....	Patent Office.
LL.B., 1908, The George Washington University.		

#### Special Students in Patent Law.

Braselton, Chester Harmon.....	Ill. ....	Patent Office.
B.S., 1904, Valparaiso University.		
Clark, Elmer A.....	D. C. ....	134 U Street.

#### Master of Laws.

Blakesley, Raphael Henry.....	Calif. ....	2517 14th Street.
LL.B., 1908, University of Southern California.		
Blanchard, Edwin Clay.....	Va. ....	808 Mass. Ave., N. E.
LL.B., 1908, Georgetown University.		
Calhoun, Clarence Crittenden....	Ky. ....	The Rochambeau.
M.Dip., 1905, The George Washington University.		
Fravel, F. Russell.....	Mass. ....	1016 15th Street.
LL.B., 1908, The George Washington University.		
Holmes, Rexford Louis.....	Mo. ....	1114 D Street, N. E.
LL.B., 1908, The George Washington University.		
Horn, Oscar Leonard.....	Calif. ....	1615 13th Street.
LL.B., 1908, University of Southern California.		
Legaspi y Villafior, José.....	P. I. ....	The Sherman.
Maddox, George Amory.....	Md. ....	1223 Vermont Ave.
A.B., 1896, A.M., 1899, St. John's College.		
LL.B., 1899, University of Maryland.		
Mapa, Emilio .....	P. I. ....	813 12th Street.
Newton, Clarence Frank.....	D. C. ....	Y. M. C. A.
LL.B., 1907, LL.M., 1908, National University.		
Sanderlin, George Bismarck.....	N. C. ....	509 4th Street.
A.B., 1899, A.M., 1900, Wake Forest College.		
LL.B., 1908, The George Washington University.		
Santos y Basco, José Abad.....	P. I. ....	Room 33, War Dept.
LL.B., 1908, Northwestern University.		
Ulke, Titus .....	D. C. ....	411 15th Street.
E.M., 1889, Royal Academy of Mines, Freiberg,		
Saxony.		
LL.B., 1908, B.S., 1909, The George Washington		
University.		
Willis, Robert Chadwick.....	N. C. ....	300 10th Street, N. E.
A.B., Guilford College.		
LL.B., 1908, The George Washington University.		

## Review.

Name.	Legal residence.	City address.
Oberlin, Paca .....	Va. ....	Columbian Bldg.
LL.B., 1903, LL.M., 1904, Columbia University.		
M.Dip., 1905, The George Washington University.		
Symons, William Leonard.....	D. C. ....	Patent Office.
LL.B., 1895, LL.M., 1896, Columbia University.		
M.P.L., 1908, The George Washington University.		
Warner, Lee Frost.....	Minn. ....	Y. M. C. A.
LL.B., 1904, The Columbia University.		

## Review, M. P. L.

Giles, Louis Edward.....	Mich. ....	117, The Ontario.
B.S. in E.E., 1902, Columbia University.		
LL.B., 1907, M.P.L., 1908, The George Washington University.		

## Auditor.

Hicks, J. Addison.....	D. C. ....	Bond Bldg.
LL.B., Georgetown University.		

## Summary.

CANDIDATES FOR THE LL.B. DEGREE:	
First year .....	39
Second year .....	45
Third year .....	61
	— 145
CANDIDATES FOR THE B.L. DEGREE:	
First year .....	72
Second year .....	16
Third year .....	7
	— 95
CANDIDATES FOR THE M.P.L. DEGREE.....	32
CANDIDATES FOR THE LL.M. DEGREE.....	14
SPECIAL STUDENTS .....	48
SPECIAL STUDENTS IN PATENT LAW.....	2
REVIEW STUDENTS .....	3
REVIEW STUDENT IN PATENT LAW.....	1
AUDITOR .....	1
	—
	341
DUPLICATES .....	4
	—
	337



## Degrees Conferred.

### DEGREES CONFERRED AT COMMENCEMENT, 1908. IN COURSE.

#### Bachelor of Laws.

Posey John Altizer, Virginia.  
Charles Rogers Arundell, District of Columbia.  
Howard Johnson Atwell, Virginia.  
John Christopher Wagner Beall, District of Columbia.  
Colley Wood Bell, District of Columbia.  
Bertram Philip Berger, New York.  
Frank Marshall Betts, Arkansas.  
John Henry Binsted, District of Columbia.  
Harry Luther Boesch, District of Columbia.  
Frank Hunter Bowen, Massachusetts.  
Maxwell Rice Brothers, Utah.

(As of 1901.)

Paul Campbell, Tennessee.  
Ira J. Carr, Michigan.  
Edmund Carrington, District of Columbia.  
Andrew Christensen, Utah.  
Fayette Dickinson Couden, Massachusetts.  
B.S., 1904, Massachusetts Agricultural College.

Harold Bert Cutler, Iowa.  
Arthur William Davidson, Ohio.  
A.B., 1899, Western Reserve University.

Harry Blaine Durham, Nebraska.  
Ph.B., 1904, Nebraska Wesleyan University.

Walter Bohrer Guy, District of Columbia.  
Ph.B., 1905, Lafayette College.

Clinton Henry Hartson, Washington.  
Moses Walton Hendry, Maryland.  
A.B., 1903, Johns Hopkins University.

Samuel Joseph Henry, District of Columbia.  
Louis Frederick Hepburn, Pennsylvania.  
Philip Simmons Hichborn, District of Columbia.  
Albert Clare Hindman, Pennsylvania.  
Howard Raymond Hinshaw, Nebraska.  
Rexford Louie Holmes, Missouri.

- Allen Harrison Hughey, Texas.  
B.A., 1903, Vanderbilt University.
- Eustacio S. Ilustre, Philippine Islands.
- George Bayard Jones, Missouri.  
B.S., 1903, Massachusetts Institute of Technology.
- Robert McGuire Jones, Virginia.  
B.A., 1902, William and Mary College.
- Michael Levin, Wisconsin.
- Henry Latané Lewis, Maryland.
- George Browning McClellan, Hawaii.
- Ira Bennett McNeal, Pennsylvania.  
A.B., 1898, Dickinson College.
- Henry Howard Mancha, Michigan.
- Allan Pomeroy Matthew, California.  
A.B., 1903, University of California.
- Lucius Randolph Mason, Maryland.
- William Lewis Miller, District of Columbia.
- Paul Mitchell, Pennsylvania.  
A.B., Allegheny College.
- Curt Berthold Mueller, Ohio.  
A.B., 1906, Cornell University.
- William Ashford Murphy, Washington.
- Claud Worthington Owen, Maryland.
- Charles Francis Owens, Maryland.
- James Frosst Patterson, District of Columbia.
- Walter Watts Patterson, Georgia.  
A.B., University of Georgia.  
LL.B., Grant University.
- Adon Daniel Phillips, New York.  
B.S., 1906, The George Washington University.
- Ivon William Phillips, New York.
- Leon Pretzfelder, Virginia.
- George William Ramsey, Illinois.
- Don Seavey Rathbun, Iowa.  
B.S., 1904, Cornell College.
- Paul Allen Rehr, Pennsylvania.
- Reginald Rutherford, Maryland.
- George Bismarck Sanderlin, North Carolina.  
A.B., 1899, A.M., 1900, Wake Forest College.
- James MacDermott Sheridan, Colorado.
- Ellison Griffith Smith, South Dakota.
- Simon Bernard Stein, Massachusetts.
- Howard William Stull, Pennsylvania.



Charles Algernon Sunderlin, Nebraska.

A.B., 1907, Nebraska University.

Louis Kossuth Sunderlin, Iowa.

Samuel Swayze, New Jersey.

Louis Ralph Taylor, Illinois.

Robert Hite Turner, Virginia.

Frank Hubbard Twyeffort, New York.

William Kemper West, Kentucky.

Robert Chadwick Willis, North Carolina.

A.B., Guilford College.

Ira Jay Wilson, Wisconsin.

Lester Hood Woolsey, New York.

A.B., 1901, Harvard University.

#### Master of Laws.

John Frederick Barth, Kentucky.

LL.B., 1907, The George Washington University.

Eugene Foster Brigham, Georgia.

LL.B., 1907, University of Virginia.

Ralph Marshall Hattersley, Ohio.

LL.B., 1907, The George Washington University.

Ora Herbert Roberts, Indiana.

LL.B., 1907, The George Washington University.

Corry Montague Stadden, Ohio.

LL.B., 1907, The George Washington University.

Edward Smith Stewart, Maryland.

LL.B., 1907, The George Washington University.

Omar Jay Veley, District of Columbia.

LL.B., 1907, The George Washington University.

#### Master of Patent Law.

Samuel Nicholas Acker, District of Columbia.

LL.B., 1906, National University.

Joseph McCarter Bowyer, Pennsylvania.

LL.B., 1907, The George Washington University.

Theodore Keller Bryant, New York.

LL.B., 1897, LL.M., 1898, Cornell University.

Moncure Burke, District of Columbia.

LL.B., 1904, National University.

Louis Edward Giles, Michigan.

B.S. in E.E., 1902, LL.B., 1907, The George Washington University.

William Samuel Graham, District of Columbia.

LL.M., 1907, National University.



- Charles Stanton Grindle, Ohio.  
LL.B., 1907, National University.
- Paul Rankin Hallam, Kentucky.  
LL.B., 1908, The George Washington University.
- William Barron Kerkam, District of Columbia.  
LL.B., 1906, LL.M., 1907, National University.
- Albert Lewers, Nevada.  
LL.B., 1907, National University.
- Robert Magrane, New York.  
A.B., 1903, A.M., 1904, Harvard University.
- Thomas L. Mead, Jr., Ohio.  
Ph.B., 1901, Western Reserve University.  
LL.B., 1907, The George Washington University.
- Curt Berthold Mueller, Ohio.  
A.B., 1906, Cornell University.
- Edwin Augustus Packard, Massachusetts.  
B.S., 1899, Massachusetts Institute of Technology.  
LL.B., 1908, The George Washington University.
- George Francis Scull, New York.  
LL.B., 1907, National University.
- Lester Abbot Stanley, District of Columbia.  
LL.B., 1907, National University.
- William Leonard Symons, Ohio.  
LL.B., 1895, LL.M., 1896, Columbian University.
- Samuel Mortimer Ward, Jr., District of Columbia.  
LL.B., 1906, National University.
- Henry Trumbull Williams, Massachusetts.  
S.B., 1903, Harvard University.  
LL.B., 1907, The George Washington University.
- Dann Leonard Wood, District of Columbia.  
LL.B., 1907, National University.
- Franklin Tuthill Woodward, District of Columbia.  
A.B., 1901, Dickinson College.  
LL.B., 1907, The George Washington University.

DEGREES CONFERRED AT FALL CONVOCATION, 1908.  
IN COURSE.

Bachelor of Laws.

- Charles Louis Allen, South Dakota.
- Archibald Tanner Banning, Jr., New York.  
A.B., 1904, Cornell University.
- John Hermann Bruninga, Illinois.
- F. Russell Fravel, Virginia.
- Arthur Wyman Glennan, District of Columbia.



## Bachelor of Laws.

- Thomas Berton Adams, Florida.  
B.A., 1902, University of Nashville.
- George Lewis Ambrose, Montana.
- Burton Hack Barndollar, Pennsylvania.
- Octave Adelbert Bigoness, District of Columbia.
- John Levi Cable, Ohio.  
L.B., 1906, Kenyon College.
- Chester Morrow Clark, District of Columbia.  
A.B., 1907, Harvard University.
- Harry Seymour Cragin, District of Columbia.  
(With distinction.)
- Robert Duff Dalzell, Pennsylvania.  
A.B., 1905, Yale University.
- Roi De Lancy, Ohio.  
B.A., 1908, The George Washington University.
- Frank Eugene Edgerton, Nebraska.  
A.B., 1900, University of Nebraska.
- George Irving Haselton, New Hampshire.
- Errol Osman Horner, New Jersey.
- Wells Aleck Hutchins, District of Columbia.  
(With distinction.)
- Warren Maxwell Jenkins, Pennsylvania.  
(With distinction.)  
A.B., 1906, Grove City College.
- John Jensen, Utah.  
(With distinction.)  
B.A., 1906, University of Utah.
- George Hickman Koons, Indiana.
- Robert Lee Lawburgh, Indiana.  
A.M., 1905, De Pauw University.
- Albert Lafayette Lohm, West Virginia.
- Richard Dunnica Micou, Virginia.  
B.A., 1903, M.A., 1903, University of Virginia.
- Walter Karl Miller, Kansas.
- Jesse Ray Nyemaster, Iowa.
- Philip De Witt Phair, Maine.  
M.A., 1906, Harvard University.
- Sidney Roche, District of Columbia.
- Paul Allison Stuart, Pennsylvania.  
A.M., 1906, Washington and Jefferson College.
- Harold J. Wagner, New York.
- Roscoe Everett Whiting, Washington.  
(With distinction.)  
A.B., 1901, Bowdoin College.

**Bachelor of Law.**

Thomas Mador Gilmore, Jr., Kentucky.

John Albert Homer, Utah.

Lewis Meriam, Massachusetts.

A.B., 1905, A.M., 1906, Harvard University.

Harry Hamlin Pearce, Michigan.

A.B., 1905, Albion College.

Harold Augustus Swenarton, New Jersey.

Ph.B., 1905, Yale University.